HCD-HPX7

SERVICE MANUAL

Ver. 1.3 2005.02

Canadian Model
AEP Model
UK Model
E Model
Australian Model

HCD-HPX7 is the amplifier, CD player, tape deck and tuner section in CMT-HPX7.

CD Section	Model Name Using Similar Mechanism	HCD-HPX9
	CD Mechanism Type	CDM82A-F1BD81
	Base Unit Name	BU-F1BD81A
	Optical Pick-up Block Name	KSM-215DCP
Tape deck Section	Model Name Using Similar Mechanism	HCD-HPX9
	Tape Transport Mechanism Type	CMAL5Z225A

SPECIFICATIONS

Main unit

Amplifier section

European model:
DIN power output (rated): 50 + 50 W (6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference): 60 + 60 W (6 ohms at 1 kHz, 10% THD)
Music power output (reference): 100 + 100 W
Other models:
The following measured at AC 240 V, AC 220 V or AC 120 V
DIN power output (rated): 45 + 45 W (6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference): 50 + 50 W (6 ohms at 1 kHz, 10% THD)

Inputs
MD/VIDEO: Sensitivity 450/250 mV, impedance 47 kilohms

Outputs
PHONES: Accepts headphones with an impedance of 8 ohms or more.
SPEAKER: Accepts impedance of 6 to 16 ohms.

CD player section

Laser: Semiconductor laser (λ=780 nm) Emission duration: continuous
Frequency response: 20 Hz – 20 kHz

Tape deck section

Recording system: 4-track 2-channel, stereo
Frequency response: 50 – 13,000 Hz (±3 dB), using Sony TYPE I cassettes

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section
Tuning range: 87.5 – 108.0 MHz
Antenna: FM lead antenna
Antenna terminals: 75 ohms unbalanced
Intermediate frequency: 10.7 MHz

AM tuner section
Tuning range
Pan-American model: 530 – 1,710 kHz (with the tuning interval set at 10 kHz) 531 – 1,710 kHz (with the tuning interval set at 9 kHz)
European model: 531 – 1,602 kHz (with the tuning interval set at 9 kHz)
Other models: 530 – 1,710 kHz (with the tuning interval set at 10 kHz) 531 – 1,602 kHz (with the tuning interval set at 9 kHz)
Antenna: AM loop antenna, external antenna terminal
Intermediate frequency: 450 kHz

General
Power requirements
North American model: 120 V AC, 60 Hz
Australian model: 230 – 240 V AC, 50/60 Hz
European model: 230 V AC, 50/60 Hz
Taiwan model: 120 V AC, 50/60 Hz
Korean model: 220 V AC, 60 Hz
Mexican model: 120 V AC, 60 Hz
Other models: 120 V, 220 V or 230 – 240 V AC, 50/60 Hz Adjustable with voltage selector

Power consumption
European model: 115 W
Other models: 90 W

Design and specifications are subject to change without notice.

COMPACT DISC DECK RECEIVER

9-877-911-04
2005B16-1
© 2005.02

Sony Corporation
Personal Audio Group
Published by Sony Engineering Corporation

SONY

TABLE OF CONTENTS

1. SERVICING NOTES 4

2. GENERAL 5

3. DISASSEMBLY

3-1. Disassembly Flow-1 7
3-2. Disassembly Flow-2 8
3-3. Optical Pick-Up Block 9
3-4. Side Plate (L) (R), Top Panel Section 10
3-5. Mechanical Deck 11
3-6. Front Panel Section 12
3-7. PANEL (1), (2) Board, HEADPHONE Board 12
3-8. Tuner (FM/AM), DC Fan 13
3-9. MAIN Board 14
3-10. Rear Panel Section 14
3-11. AMP Board, Switching Regulator 15
3-12. POWER Board 15
3-13. CD Mechanism Deck (CDM82A) 16
3-14. Plate (Cover Top) 17
3-15. Top Section 17
3-16. Arm Section 18
3-17. CD Mechanism Deck Section 19
3-18. Sub Gear (2 Step), Sub Slider Assy 20
3-19. Arm (R) 21
3-20. Gear (Stock Planet) (Right) 22
3-21. Lever (Sub Gear Back L) 22
3-22. Arm (L) 23
3-23. Gear (Stock Rot Long) (Left) 24
3-24. Gear (Stock Rot Short) (Right) 24
3-25. Stocker (1) Assy To Stocker (5) Assy 25
3-26. SPR-E (Roller Slider Upper) (Top Section) 26
3-27. Rubber Roller (Top Section) 26
3-28. LOD Motor 27
3-29. Slider (Push-popup) 27
3-30. Rotary Encoder 28
3-31. Assembling of the Rotary Encoder 29
3-32. ELV Motor 30
3-33. Chassis (Top), Chassis (Bottom) 31
3-34. Lever (Loading R, Loading L) 32
3-35. Disc Stop Lever 33
3-36. DRIVER Board 33
3-37. CD Board 34
3-38. Optical Pick-up (KSM-215DCP) 34
3-39. Base Unit Section 35
3-40. Lever (BU Lock) 35
3-41. Gear (IDL-B) 36
3-42. Gear (IDL-C) 36
3-43. SPR-E (Tako-Back) 37
3-44. Plate (Push) Assy 38
3-45. SPR-P (Lock) 39

4. ASSEMBLY

4-1. Assembly Flow 40
4-2. Assembling of the Stocker Section 41
4-3. Assembling of the Gear (Stock Rot Short) (Right) 42
4-4. Assembling of the Gear (Stock Rot Long) (Left) 43
4-5. Confirming the Assembling of the Stocker Section 44
4-6. Assembling of the Gear (Stock Rotary Left) 45
4-7. Assembling of the Gear (Stock Rotary Right) 46
4-8. Assembling of the Lever (Sub Gear Back L) 47
4-9. Assembling of the Gear (Sub Gear Pin Right) 48
4-10. Assembling of the Lever (Sub Gear Back R) 49
4-11. Assembling of the Sub Gear (Idler) 50
4-12. Assembling of the Sub Gear (2 Step) 51
4-13. Confirming the Assembling of the Arm Section 52

5. TEST MODE 53

6. ELECTRICAL ADJUSTMENTS 55

7. DIAGRAMS

7-1. Block Diagram – CD Servo Section – 59
7-2. Block Diagram – MAIN Section – 60
7-3. Block Diagram – PANEL/POWER SUPPLY Section – 61
7-4. Printed Wiring Board – CD Board – 62
7-5. Schematic Diagram – CD Board – 63
7-6. Printed Wiring Board – CD MECHANISM Section – 64
7-7. Schematic Diagram – CD MECHANISM Section – 65
7-8. Printed Wiring Board – MAIN Board – 66
7-9. Schematic Diagram – MAIN Board (1/3) – 67
7-10. Schematic Diagram – MAIN Board (2/3) – 68
7-11. Schematic Diagram – MAIN Board (3/3) – 69
7-12. Printed Wiring Board – AMP Board – 70
7-13. Schematic Diagram – AMP Board – 71
7-14. Printed Wiring Board – PANEL Section – 72
7-15. Schematic Diagram – PANEL Section – 73
7-16. Printed Wiring Board – POWER Board – 74
7-17. Schematic Diagram – POWER Board – 75

8. EXPLODED VIEWS

8-1. Side Plate, Top Panel Section 83
8-2. Front Panel Section 84
8-3. Chassis Section-1 85
8-4. Chassis Section-2 86
8-5. CD Mechanism Deck Section-1 (CDM82A) 87
8-6. CD Mechanism Deck Section-2 (CDM82A) 88
8-7. CD Mechanism Deck Section-3 (CDM82A) 89
8-8. CD Mechanism Deck Section-4 (CDM82A) 90
8-9. CD Mechanism Deck Section-5 (CDM82A) 91
8-10. CD Mechanism Deck Section-6 (CDM82A) 92
8-11. CD Mechanism Deck Section-7 (CDM82A) 93
8-12. CD Mechanism Deck Section-8 (CDM82A) 94
8-13. CD Mechanism Deck Section-9 (CDM82A) 95
8-14. CD Mechanism Deck Section-10 (CDM82A) 96
8-15. Base Unit Section (BU-F1BD81A) 97

9. ELECTRICAL PARTS LIST 98

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 °C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

This appliance is classified as a CLASS 1 LASER product. This label is located on the rear exterior.

DANGER	DANGER
INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK DEFEATED. AVOID DIRECT EXPOSURE TO BEAM.	RADIATION DE LESER INVISIBLE LORS D'OUVERTURE. AVEC L'ENCLENCHEMENT DE SECURITE ANNULE. EVITER L'EXPOSITION DIRECTE .AU RAYON.

UNLEADED SOLDER

Boards requiring use of unleaded solder are printed with the lead-free mark (LF) indicating the solder contains no lead.
(Caution: Some printed circuit boards may not come printed with the lead free mark due to their particular size)

: LEAD FREE MARK

Unleaded solder has the following characteristics.

- Unleaded solder melts at a temperature about 40 °C higher than ordinary solder.
  Ordinary soldering irons can be used but the iron tip has to be applied to the solder joint for a slightly longer time.
  Soldering irons using a temperature regulator should be set to about 350 °C.
  Caution: The printed pattern (copper foil) may peel away if the heated tip is applied for too long, so be careful!
- Strong viscosity
  Unleaded solder is more viscou-s (sticky, less prone to flow) than ordinary solder so use caution not to let solder bridges occur such as on IC pins, etc.
- Usable with ordinary solder
  It is best to use only unleaded solder but unleaded solder may also be added to ordinary solder.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COM- POSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1
SERVICING NOTES

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

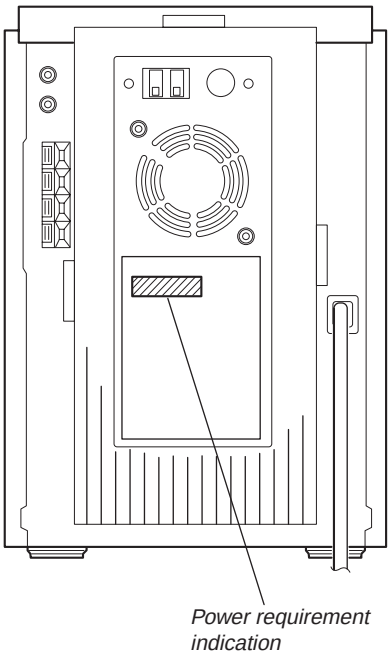
NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

LASER DIODE AND FOCUS SEARCH OPERATION CHECK

Carry out the "S curve check" in "CD section adjustment" and check that the S curve waveforms is output three times.

• MODEL IDENTIFICATION
– Rear View –



Model Name	Power Voltage Indication
Canadian model	AC: 120 V ∼ 60 Hz
Australian model	AC: 230 – 240 V ∼ 50/60 Hz
AEP, UK models	AC: 230 V ∼ 50/60 Hz
Taiwan model	AC: 120 V ∼ 50/60 Hz
Korean model	AC: 220 V ∼ 60 Hz
Mexican model	AC: 120 V ∼ 60 Hz
Other models	AC: 120 V, 220 V, 230 – 240 V ∼ 50/60 Hz

SECTION 2
GENERAL

This section is extracted from instruction manual.

• LOCATION OF CONTROLS

Main unit

ALPHABETICAL ORDER

A – O

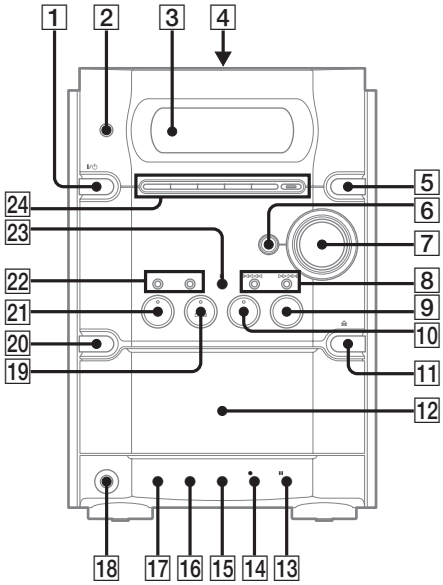
ALBUM +/– 22 (11, 13)
Cassette compartment 4
CD SYNC 15 (18)
DISC 1 – 5, +1 24 (11, 13)
DISC SKIP 5 (11, 13)
Disc tray 12 (10)
Display window 3
DSGX 6 (19)
EX-CHANGE 20 (10)
FM MODE 16 (16, 27)
FUNCTION 9 (11, 13, 15, 17, 23)

P – Z

PHONES jack 18
PLAY MODE 17 (11, 13, 18)
Remote sensor 2
REPEAT 16 (12)
TUNER/BAND 10 (14, 15)
TUNING +/– 8 (14, 15)
TUNING MODE 17 (14, 15)
VOLUME 7 (20, 26)

BUTTON DESCRIPTIONS

I/⏻ (power) 1 (8, 15, 20, 21, 28)
⏮◀◀/▶▶⏭ (skip back/skip forward, rewind/fast forward) 8 (11, 13)
■ 23 (11, 15, 28)
❚❚ TAPE (pause) 13 (17)
● REC 14 (18)
CD/►❚❚ (play/pause) 19 (11, 13, 27)
TAPE/► (play) 21 (17)
⏏ (CD eject) 11 (10, 11)



Remote control

ALPHABETICAL ORDER

A – O

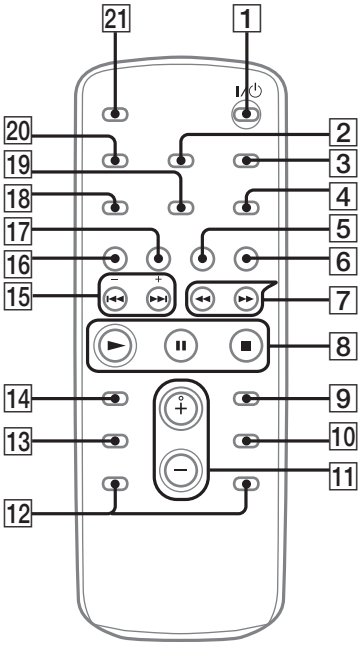
ALBUM +/– 12 (11, 13)
CD 17 (11, 13, 15)
CLEAR 14 (13)
CLOCK/TIMER SELECT 2 (20, 21, 26)
CLOCK/TIMER SET 3 (9, 20, 21)
DISC SKIP 10 (11, 13)
DISPLAY 20 (16, 22)
ENTER 9 (9, 13, 20, 21)
EQ 13 (19)
FM MODE 4 (16, 27)
FUNCTION 6 (11, 13, 15, 17, 23)

P – Z

PLAY MODE 19 (11, 13, 18)
REPEAT 4 (12)
SLEEP 21 (19)
TAPE 16 (17)
TUNER/BAND 5 (14, 15)
TUNER MEMORY 18 (14)
TUNING MODE 19 (14, 15)
VOLUME +/– 11 (20, 26)

BUTTON DESCRIPTIONS

I/⏻ (power) 1 (8, 15, 20, 21, 28)
◀◀/▶▶ (rewind/fast forward) 7 (11, 17)
I◀◀ /▶▶I (skip back/skip forward) 15 (9, 11, 13, 19, 20, 21)
■ (stop) 8 (11, 15, 17, 18, 28)
❚❚ (pause) 8 (11, 17)
► (play) 8 (11, 13, 17, 27)
+/– (tuning) 15 (14, 15)



Setting the clock

Use buttons on the remote for the operation.

1 Press I/⏻ to turn on the system.

2 Press CLOCK/TIMER SET.

3 Press I◀◀ /▶▶I repeatedly to set the hour.

4 Press ENTER.

5 Press I◀◀ /▶▶I repeatedly to set the minute.

6 Press ENTER.

The clock starts working.

To adjust the clock

1 Press CLOCK/TIMER SET.

2 Press I◀◀ /▶▶I until “CLOCK SET” appears, then press ENTER.

3 Do the same procedures as step 3 to 6 above.

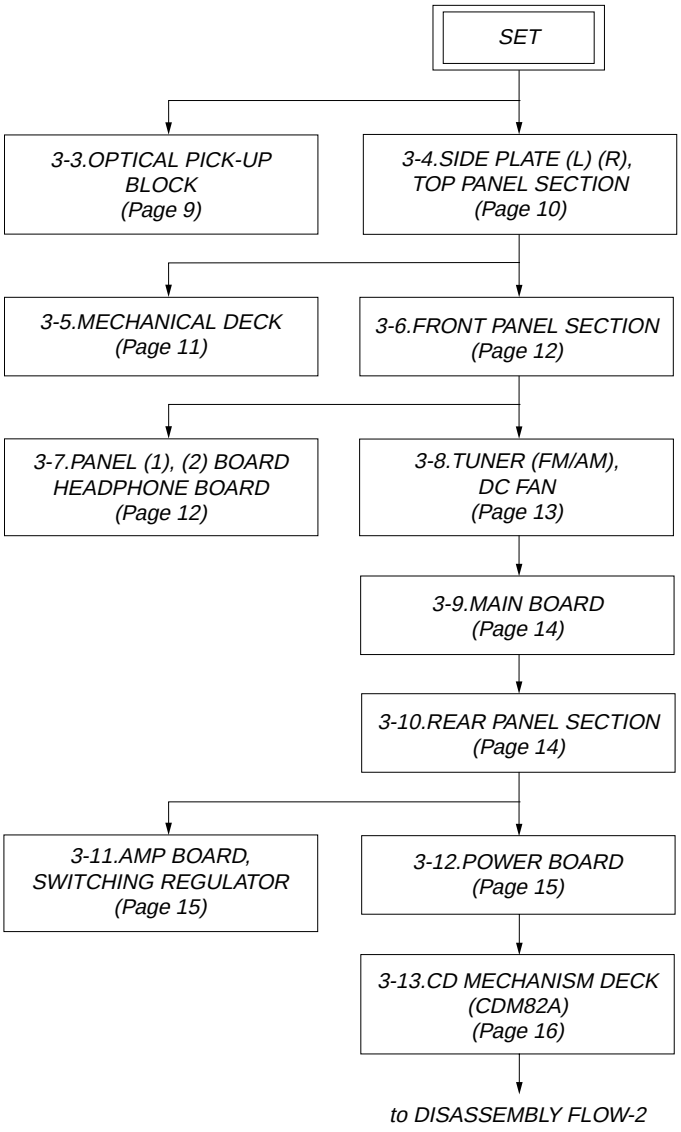
Note

The clock is not displayed in Power Saving Mode

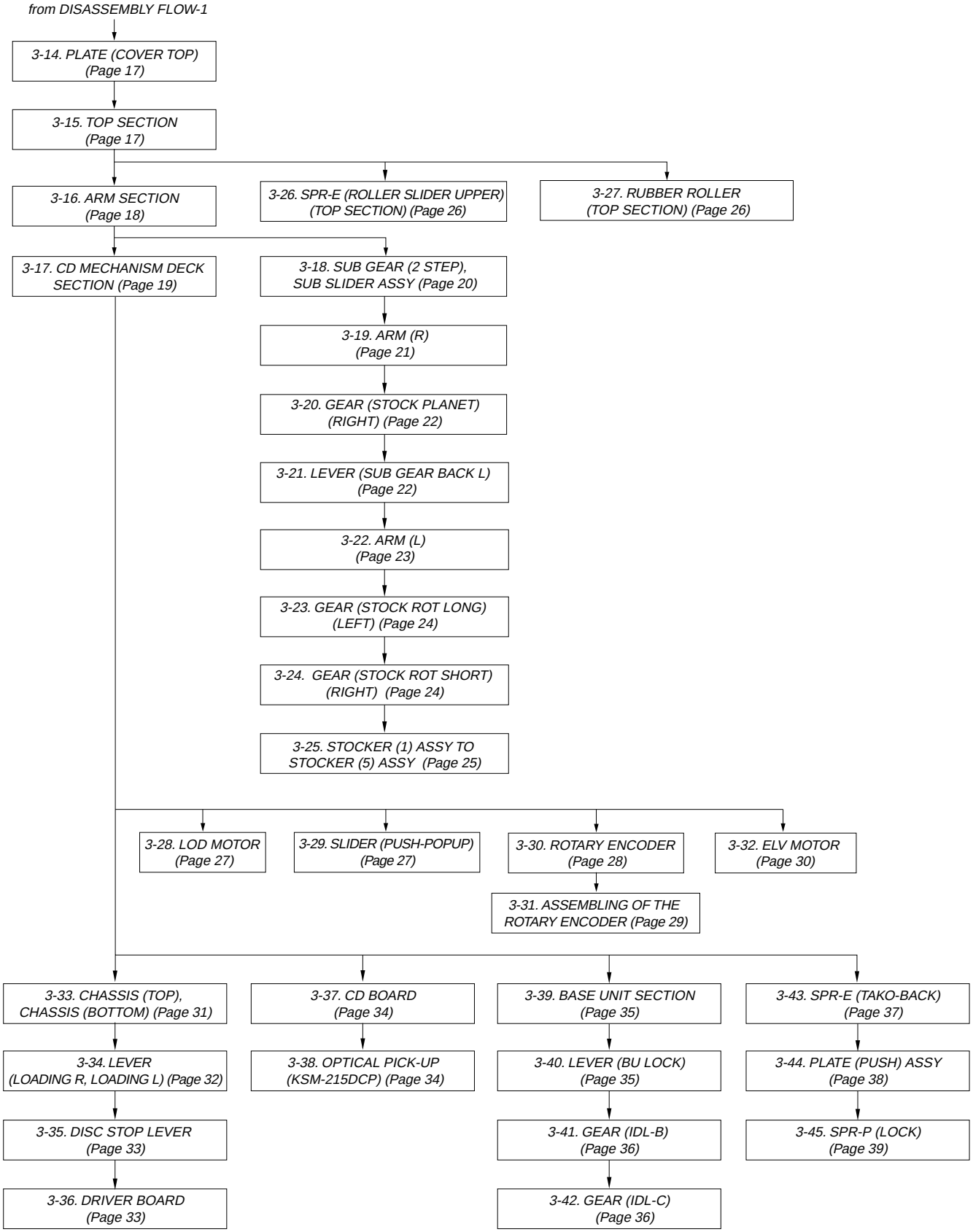
SECTION 3
DISASSEMBLY

• This is can be disassemble according to the following sequence.

3-1. DISASSEMBLY FLOW-1

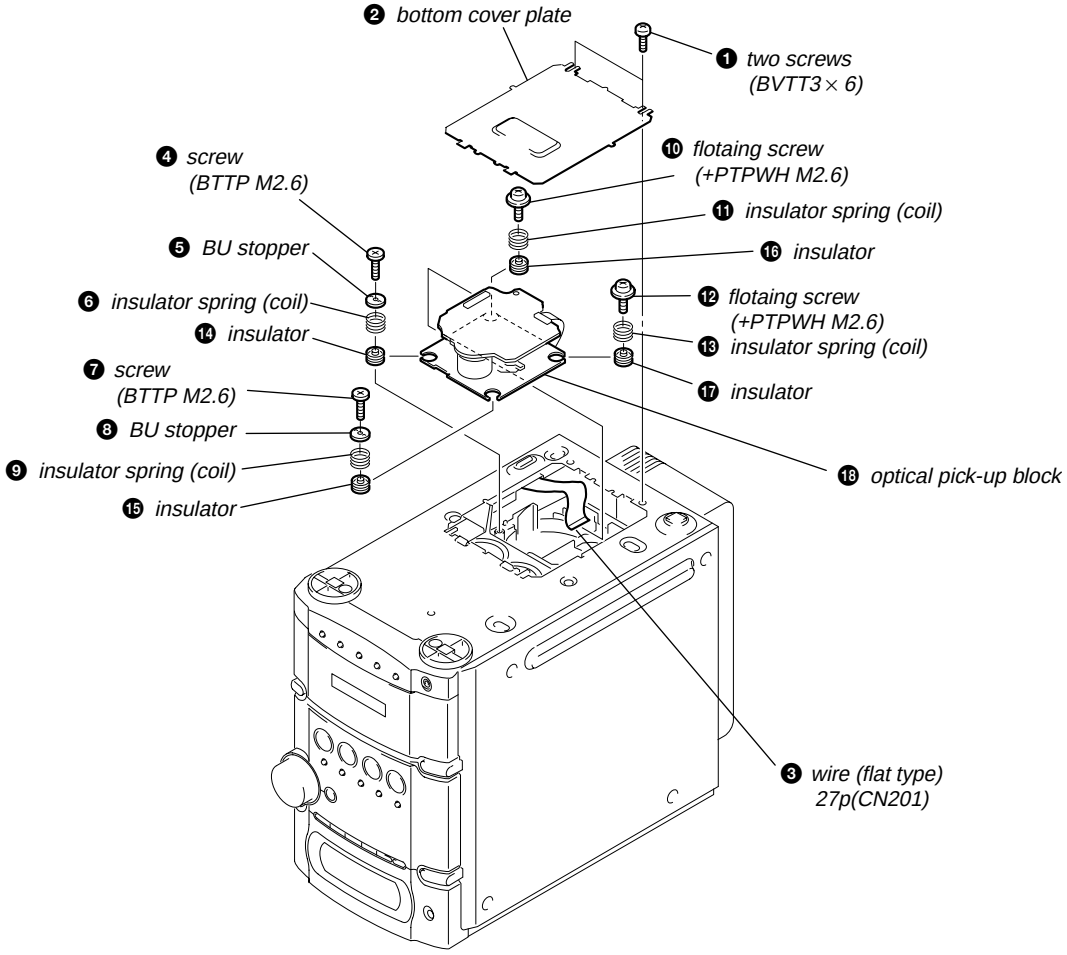

SET
3-3.OPTICAL PICK-UP BLOCK (Page 9)
3-4.SIDE PLATE (L) (R), TOP PANEL SECTION (Page 10)
3-5.MECHANICAL DECK (Page 11)
3-6.FRONT PANEL SECTION (Page 12)
3-7.PANEL (1), (2) BOARD HEADPHONE BOARD (Page 12)
3-8.TUNER (FM/AM), DC FAN (Page 13)
3-9.MAIN BOARD (Page 14)
3-10.REAR PANEL SECTION (Page 14)
3-11.AMP BOARD, SWITCHING REGULATOR (Page 15)
3-12.POWER BOARD (Page 15)
3-13.CD MECHANISM DECK (CDM82A) (Page 16)
to DISASSEMBLY FLOW-2

3-2. DISASSEMBLY FLOW-2

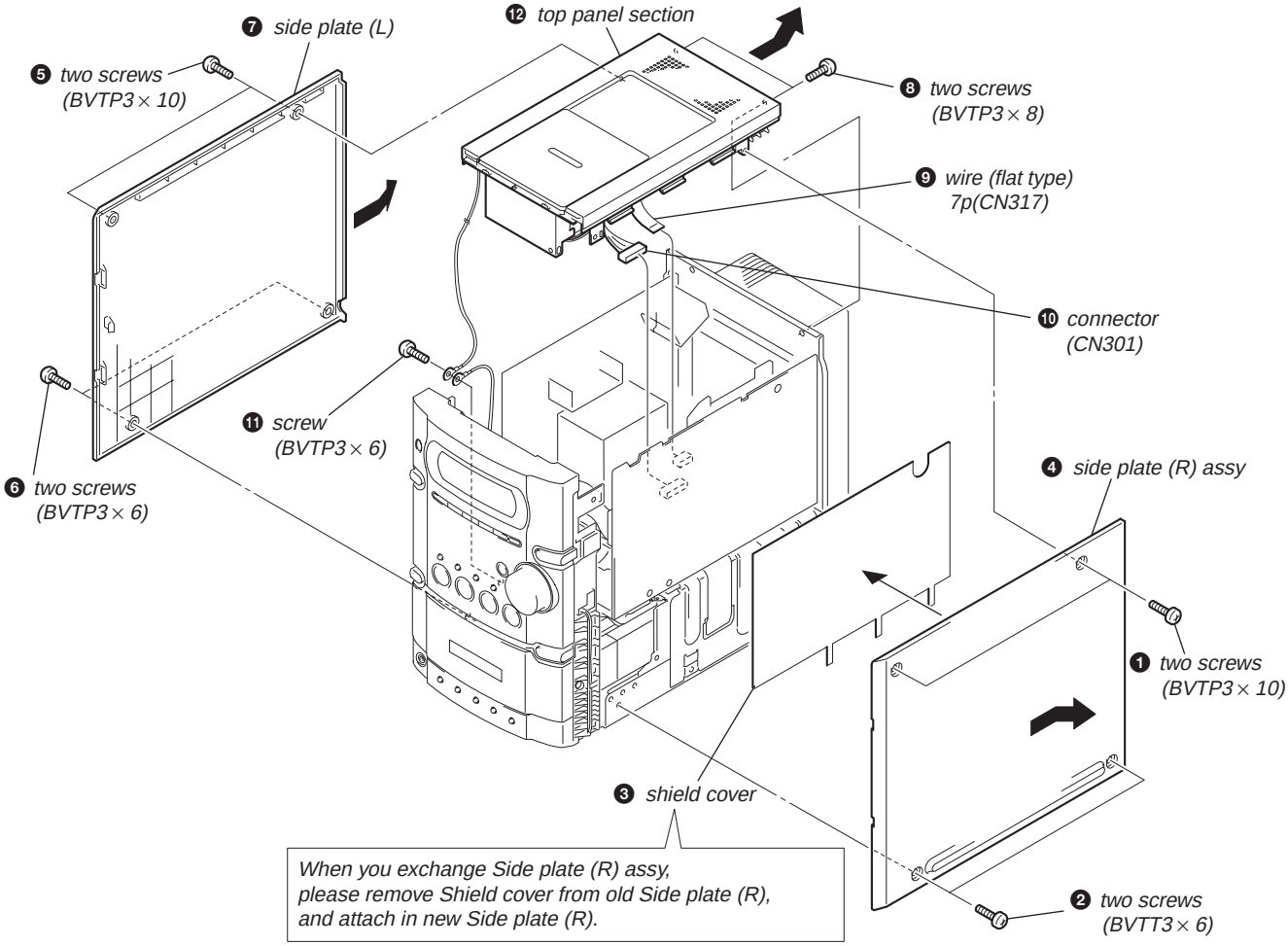

from DISASSEMBLY FLOW-1
3-14. PLATE (COVER TOP) (Page 17)
3-15. TOP SECTION (Page 17)
3-16. ARM SECTION (Page 18)
3-26. SPR-E (ROLLER SLIDER UPPER) (TOP SECTION) (Page 26)
3-27. RUBBER ROLLER (TOP SECTION) (Page 26)
3-17. CD MECHANISM DECK SECTION (Page 19)
3-18. SUB GEAR (2 STEP), SUB SLIDER ASSY (Page 20)
3-19. ARM (R) (Page 21)
3-20. GEAR (STOCK PLANET) (RIGHT) (Page 22)
3-21. LEVER (SUB GEAR BACK L) (Page 22)
3-22. ARM (L) (Page 23)
3-23. GEAR (STOCK ROT LONG) (LEFT) (Page 24)
3-24. GEAR (STOCK ROT SHORT) (RIGHT) (Page 24)
3-25. STOCKER (1) ASSY TO STOCKER (5) ASSY (Page 25)
3-28. LOD MOTOR (Page 27)
3-29. SLIDER (PUSH-POPUP) (Page 27)
3-30. ROTARY ENCODER (Page 28)
3-32. ELV MOTOR (Page 30)
3-31. ASSEMBLING OF THE ROTARY ENCODER (Page 29)
3-33. CHASSIS (TOP), CHASSIS (BOTTOM) (Page 31)
3-37. CD BOARD (Page 34)
3-39. BASE UNIT SECTION (Page 35)
3-43. SPR-E (TAKO-BACK) (Page 37)
3-34. LEVER (LOADING R, LOADING L) (Page 32)
3-38. OPTICAL PICK-UP (KSM-215DCP) (Page 34)
3-40. LEVER (BU LOCK) (Page 35)
3-44. PLATE (PUSH) ASSY (Page 38)
3-35. DISC STOP LEVER (Page 33)
3-41. GEAR (IDL-B) (Page 36)
3-45. SPR-P (LOCK) (Page 39)
3-36. DRIVER BOARD (Page 33)
3-42. GEAR (IDL-C) (Page 36)

Note: Follow the disassembly procedure in the numerical order given.

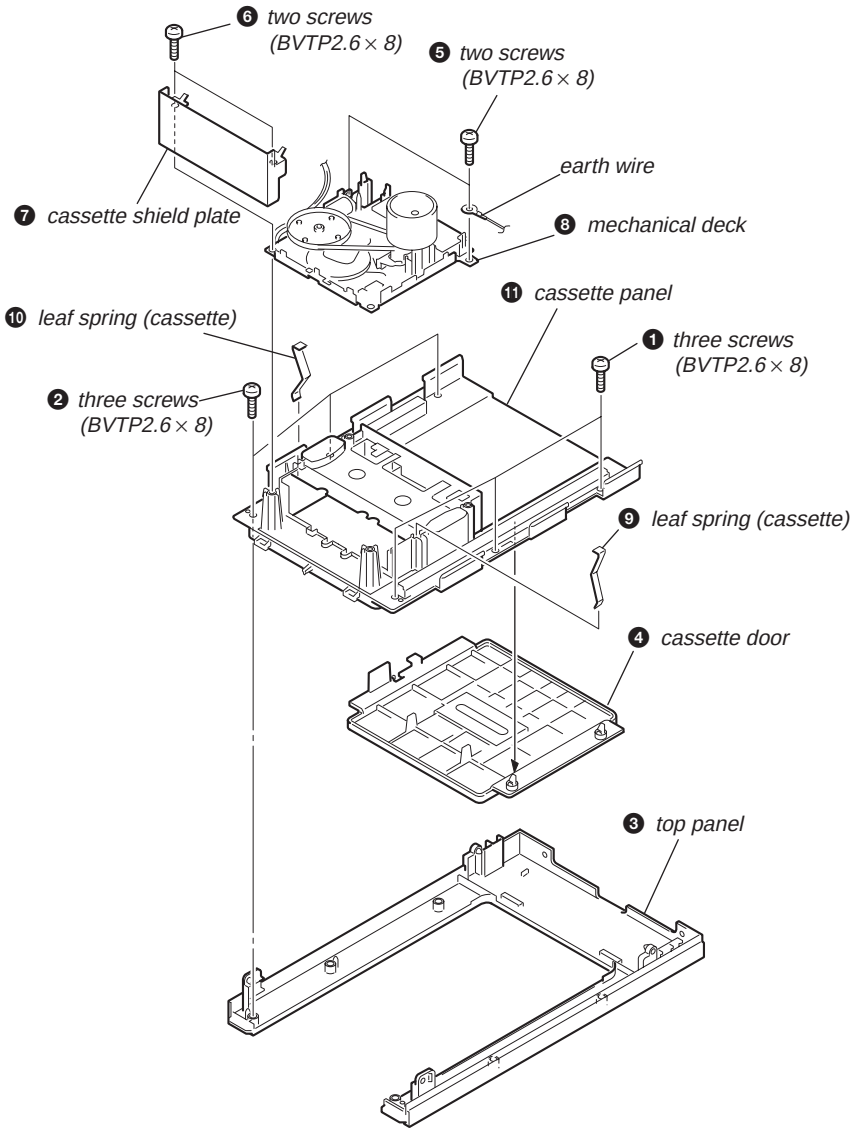
3-3. OPTICAL PICK-UP BLOCK



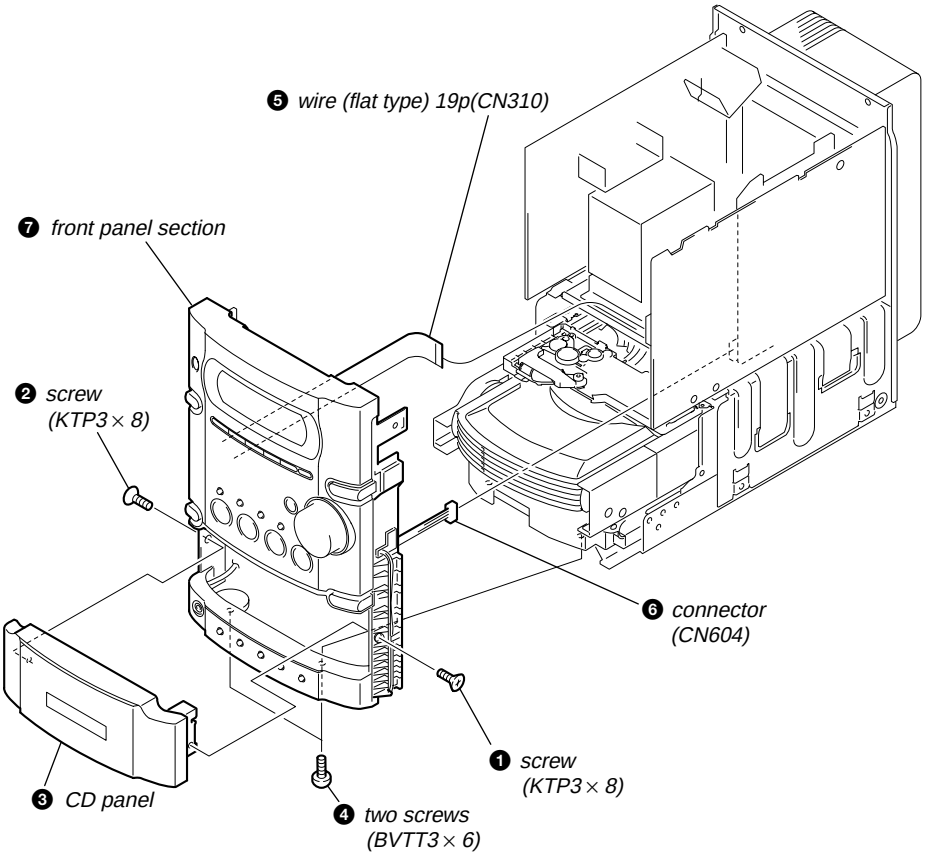
3-4. SIDE PLATE (L) (R), TOP PANEL SECTION


❼ side plate (L)
⓬ top panel section
❺ two screws (BVTP3 × 10)
❽ two screws (BVTP3 × 8)
❾ wire (flat type) 7p(CN317)
❿ connector (CN301)
⓫ screw (BVTP3 × 6)
❻ two screws (BVTP3 × 6)
❹ side plate (R) assy
❶ two screws (BVTP3 × 10)
❸ shield cover
❷ two screws (BVTT3 × 6)
When you exchange Side plate (R) assy, please remove Shield cover from old Side plate (R), and attach in new Side plate (R).

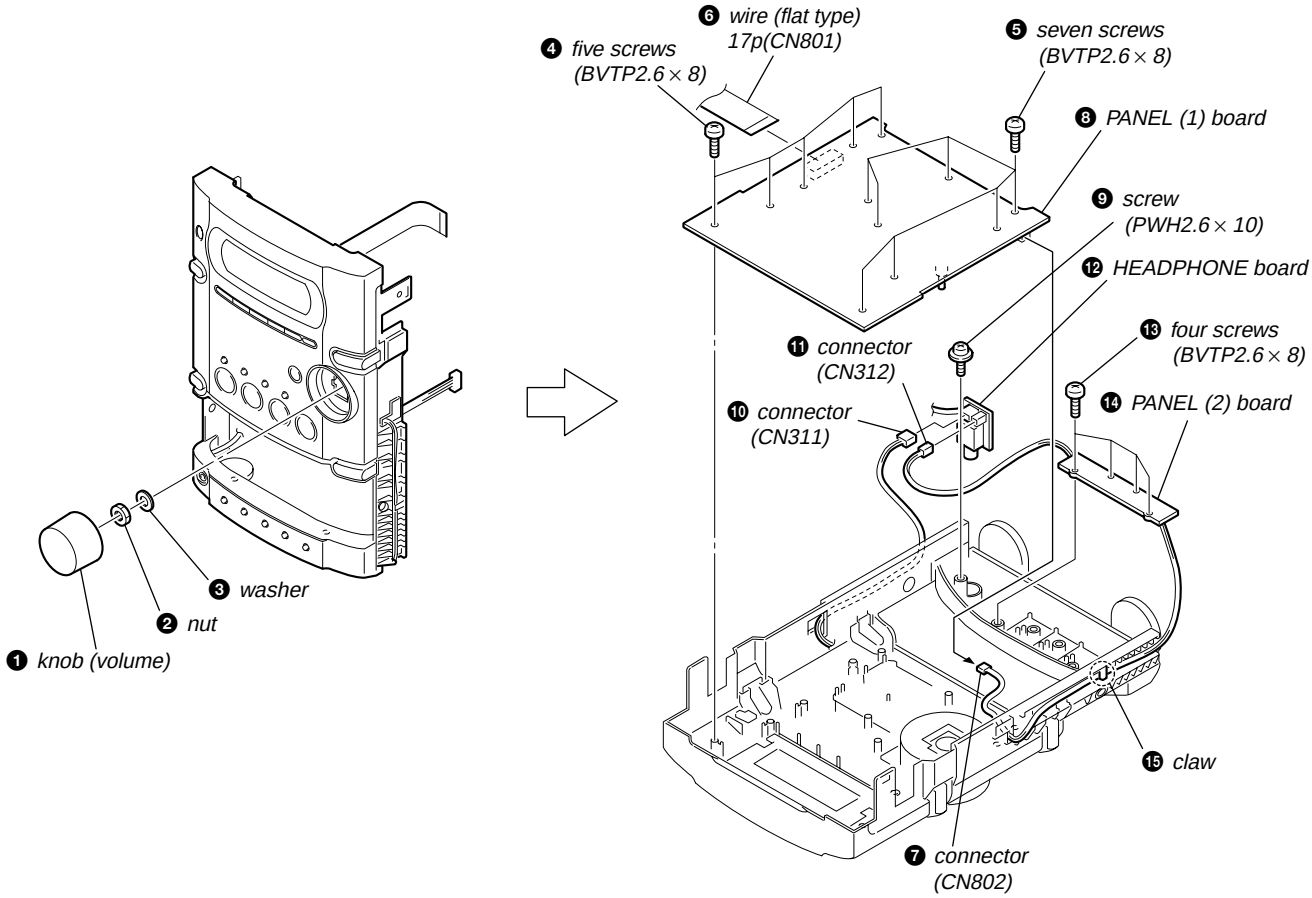
3-5. MECHANICAL DECK


❻ two screws (BVTP2.6 × 8)
❺ two screws (BVTP2.6 × 8)
earth wire
❼ cassette shield plate
❽ mechanical deck
⓫ cassette panel
❿ leaf spring (cassette)
❶ three screws (BVTP2.6 × 8)
❷ three screws (BVTP2.6 × 8)
❾ leaf spring (cassette)
❹ cassette door
❸ top panel

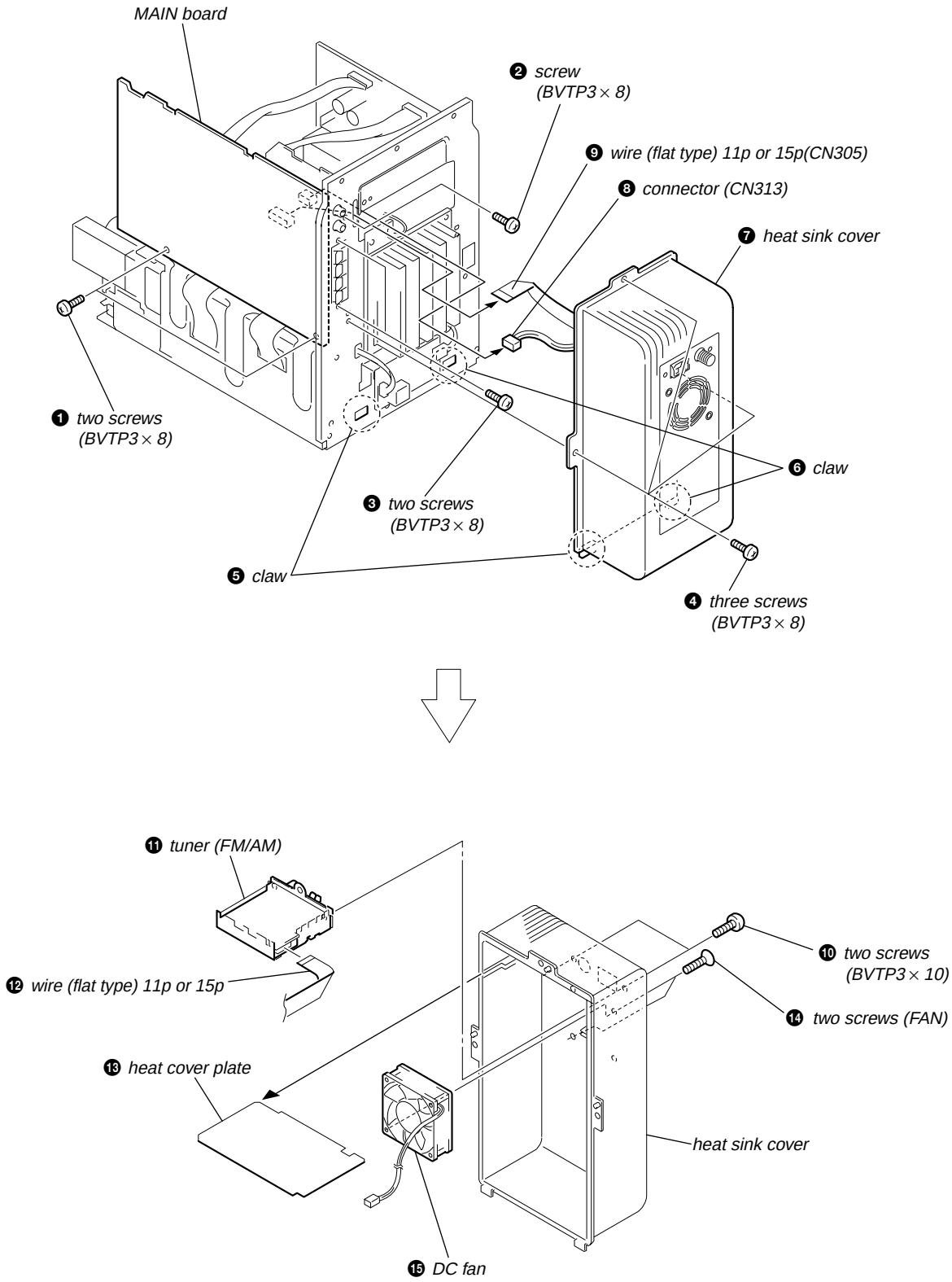
3-6. FRONT PANEL SECTION


❺ wire (flat type) 19p(CN310)
❼ front panel section
❷ screw (KTP3 × 8)
❻ connector (CN604)
❶ screw (KTP3 × 8)
❸ CD panel
❹ two screws (BVTT3 × 6)

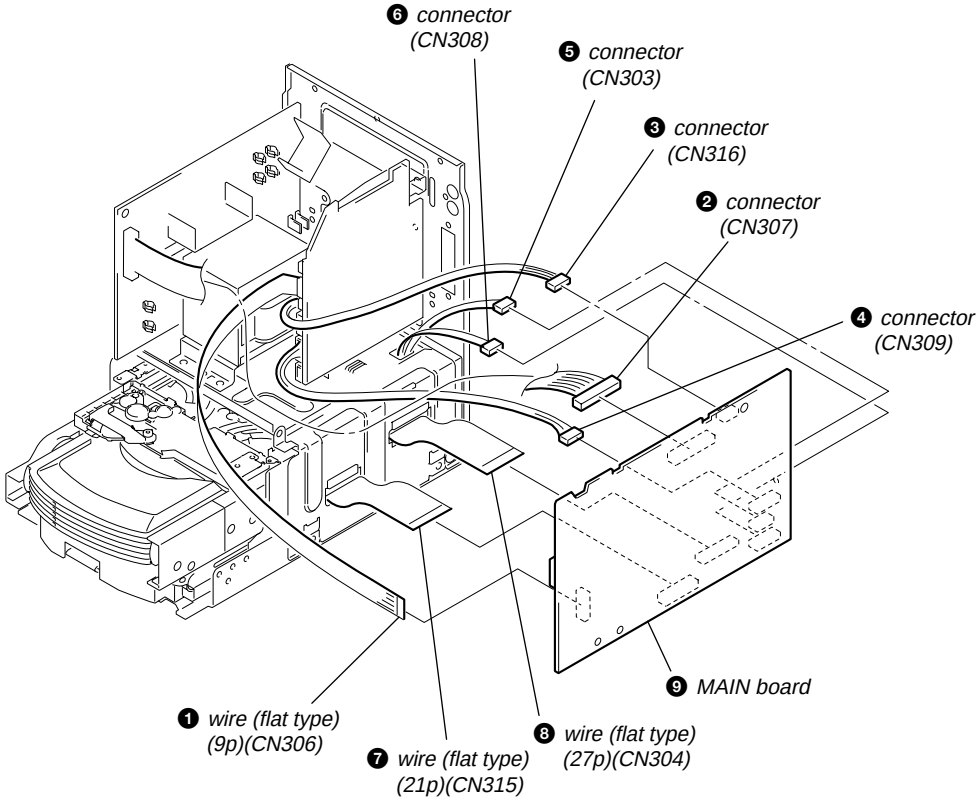
3-7. PANEL (1), (2) BOARD, HEADPHONE BOARD



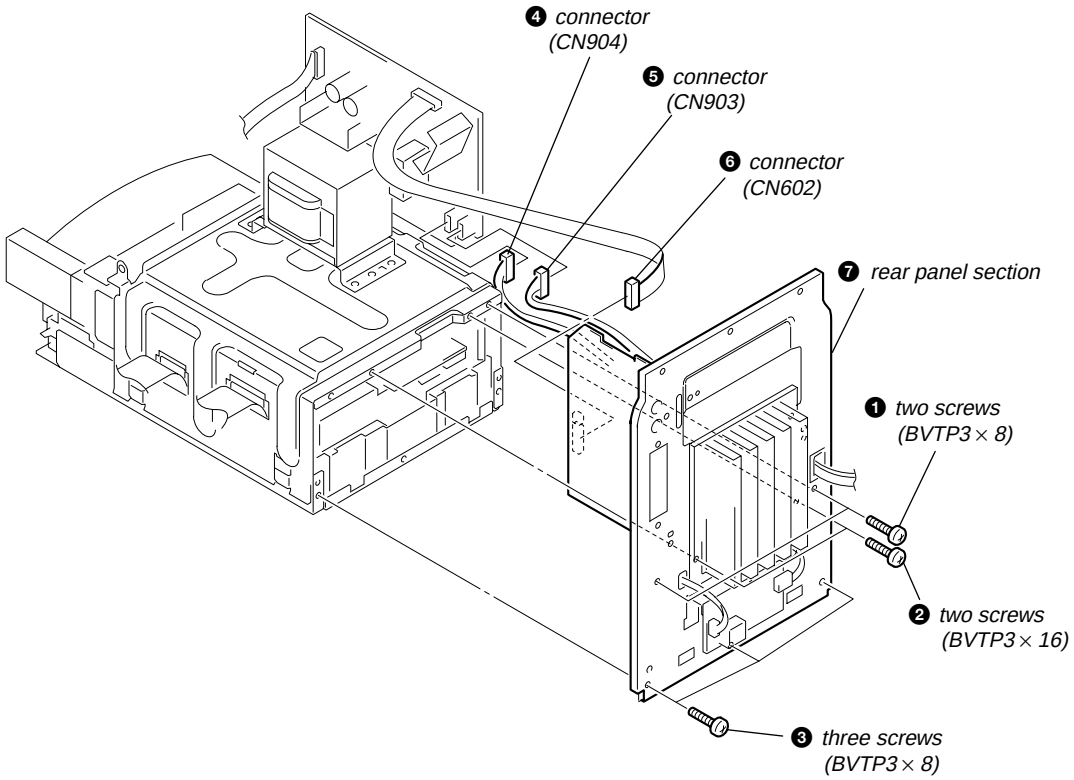
3-8. TUNER (FM/AM), DC FAN


MAIN board
❷ screw (BVTP3 × 8)
❾ wire (flat type) 11p or 15p(CN305)
❽ connector (CN313)
❼ heat sink cover
❶ two screws (BVTP3 × 8)
❻ claw
❸ two screws (BVTP3 × 8)
❺ claw
❹ three screws (BVTP3 × 8)
❶❶ tuner (FM/AM)
❶❷ wire (flat type) 11p or 15p
❶❸ heat cover plate
❶❺ DC fan
❶❹ two screws (FAN)
❶❿ two screws (BVTP3 × 10)
heat sink cover

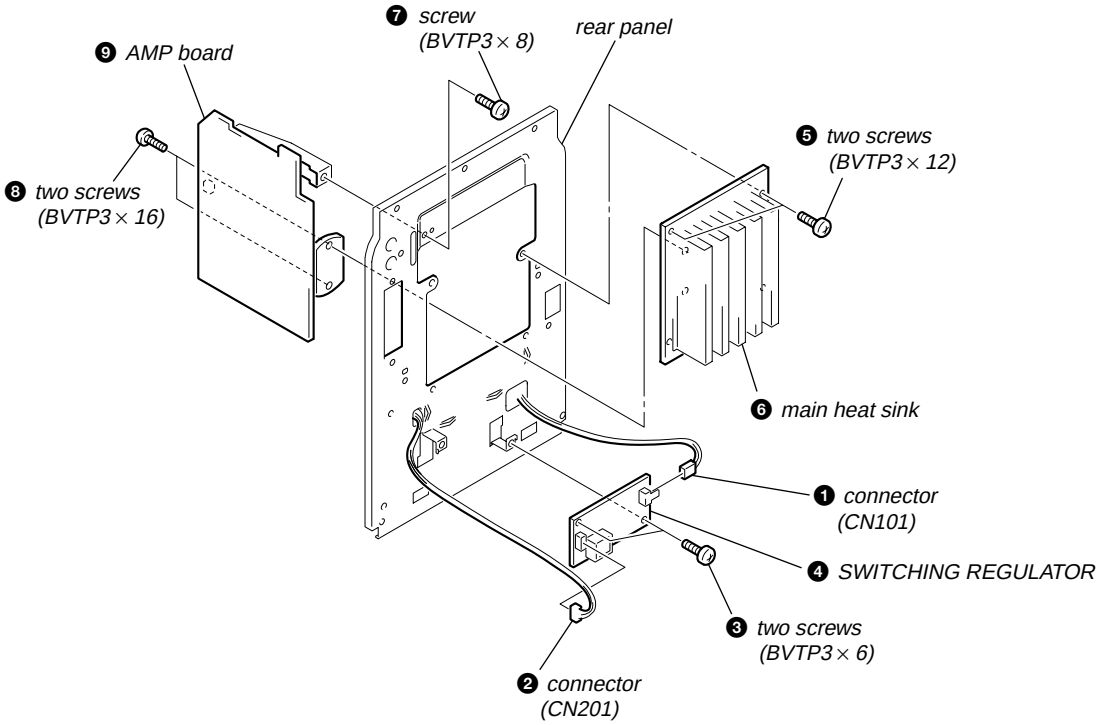
3-9. MAIN BOARD



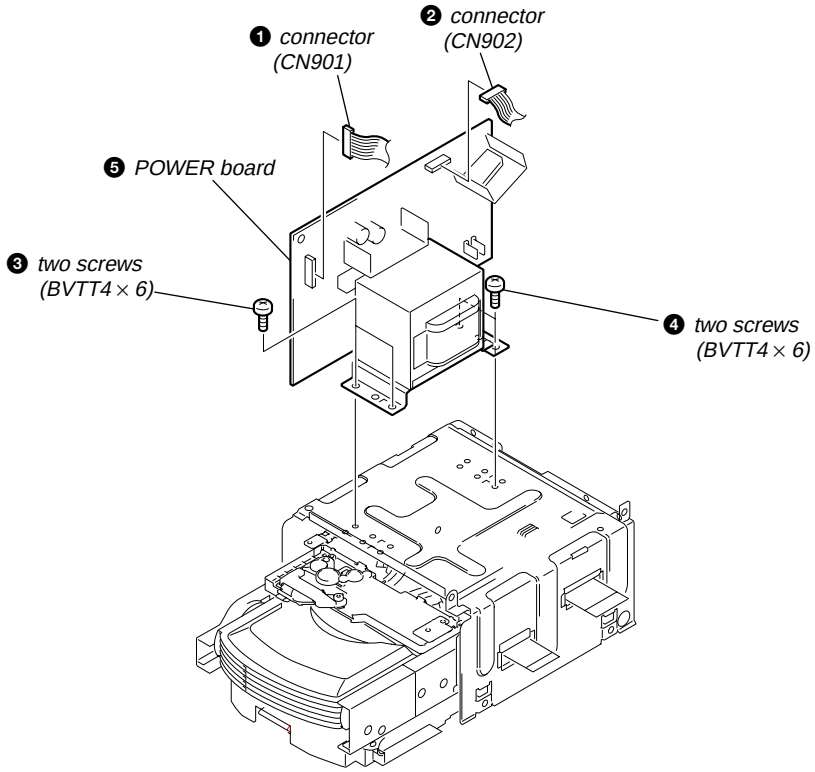
3-10. REAR PANEL SECTION


❹ connector (CN904)
❺ connector (CN903)
❻ connector (CN602)
❼ rear panel section
❶ two screws (BVTP3 × 8)
❷ two screws (BVTP3 × 16)
❸ three screws (BVTP3 × 8)

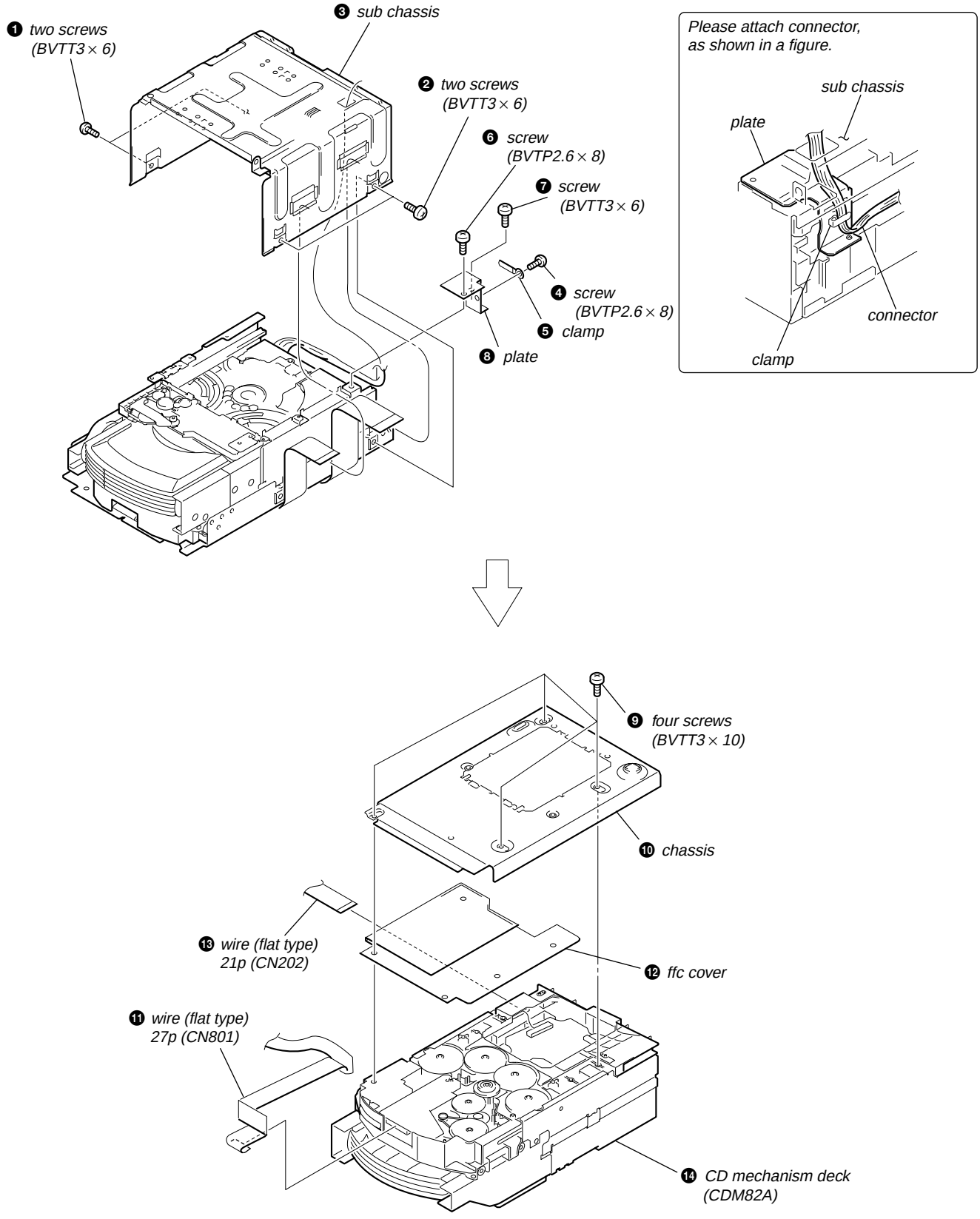
3-11. AMP BOARD, SWITCHING REGULATOR



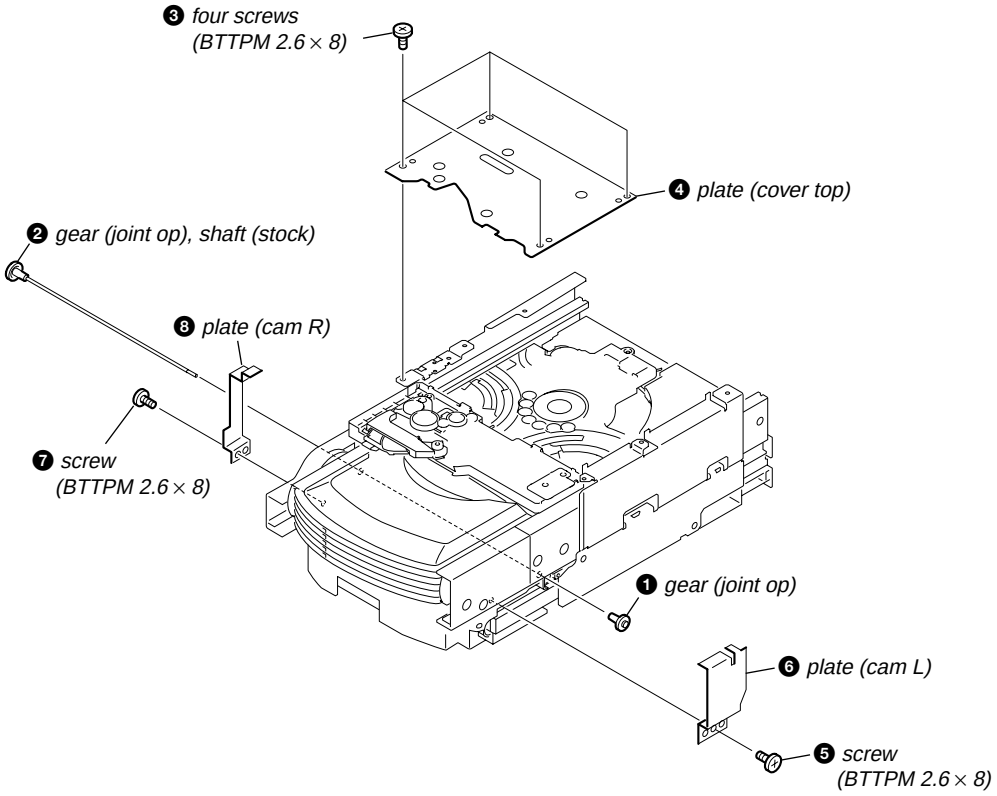
3-12. POWER BOARD



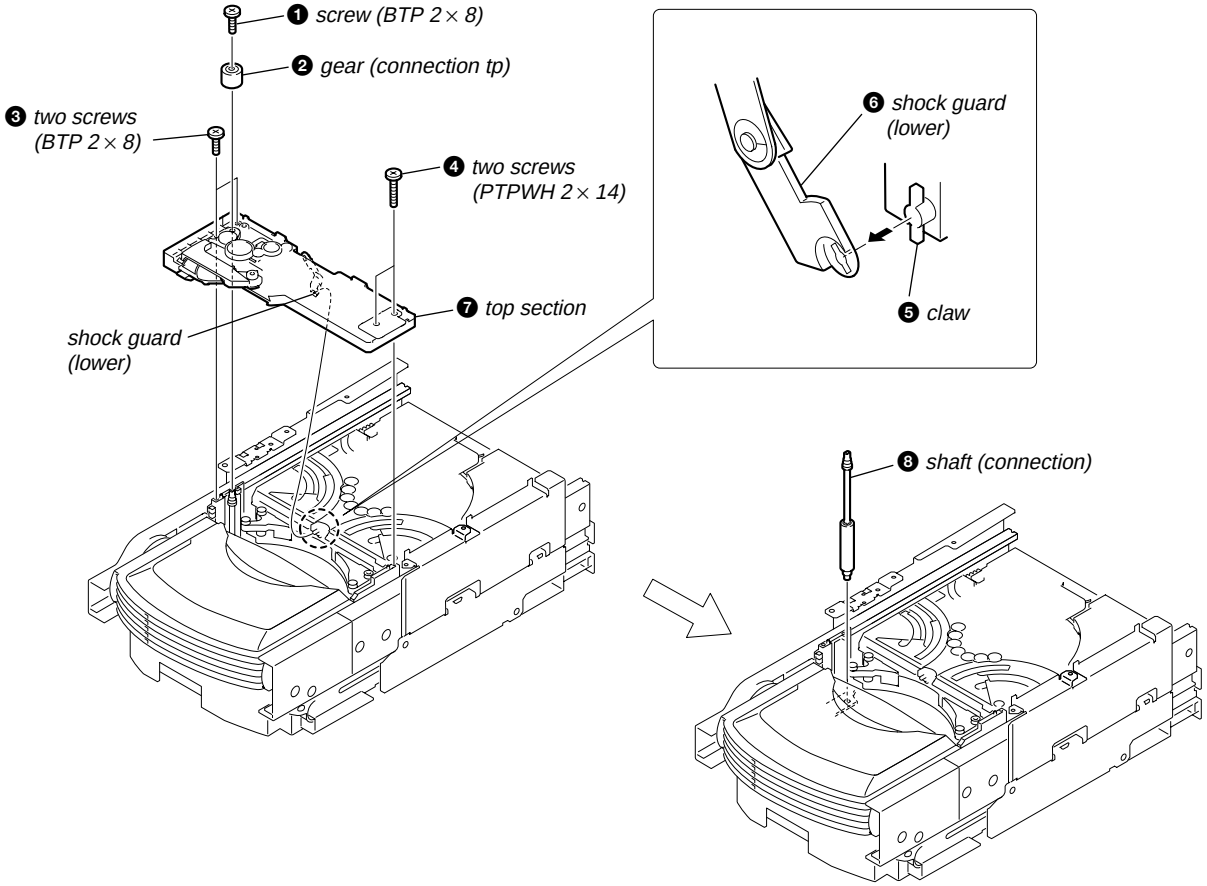
3-13. CD MECHANISM DECK (CDM82A)



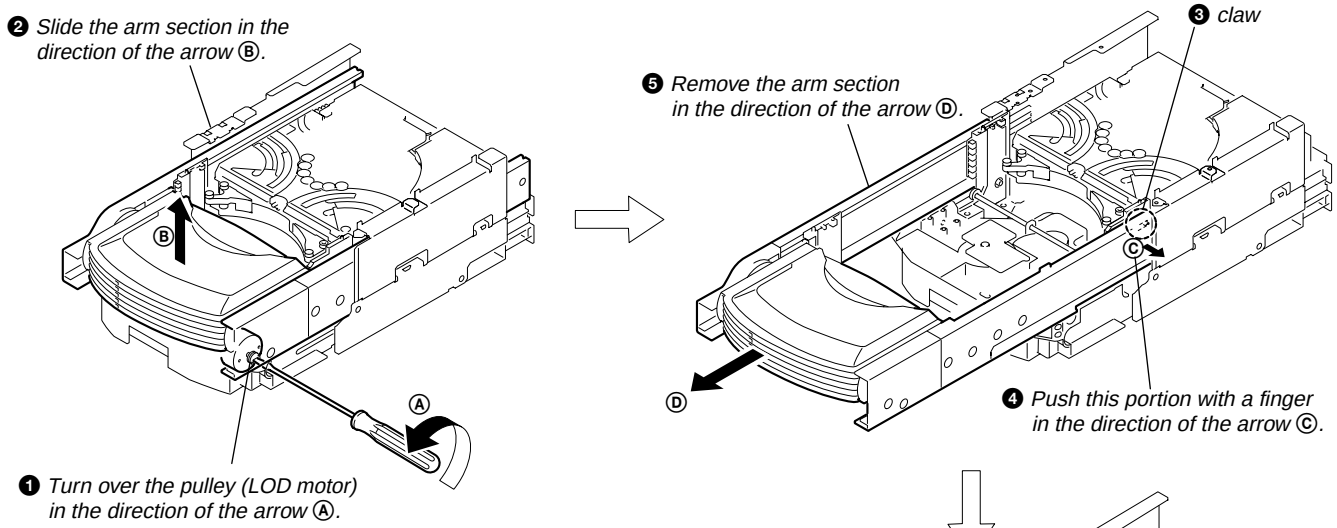
3-14. PLATE (COVER TOP)

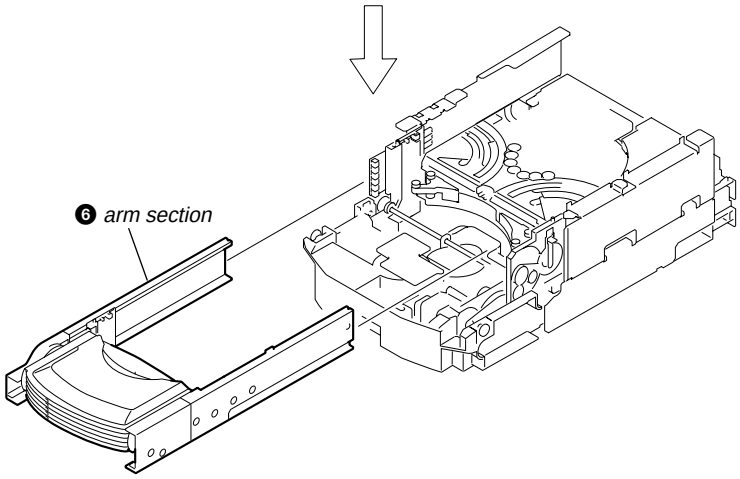

❸ four screws (BTTPM 2.6 × 8)
❹ plate (cover top)
❷ gear (joint op), shaft (stock)
❽ plate (cam R)
❼ screw (BTTPM 2.6 × 8)
❶ gear (joint op)
❻ plate (cam L)
❺ screw (BTTPM 2.6 × 8)

3-15. TOP SECTION

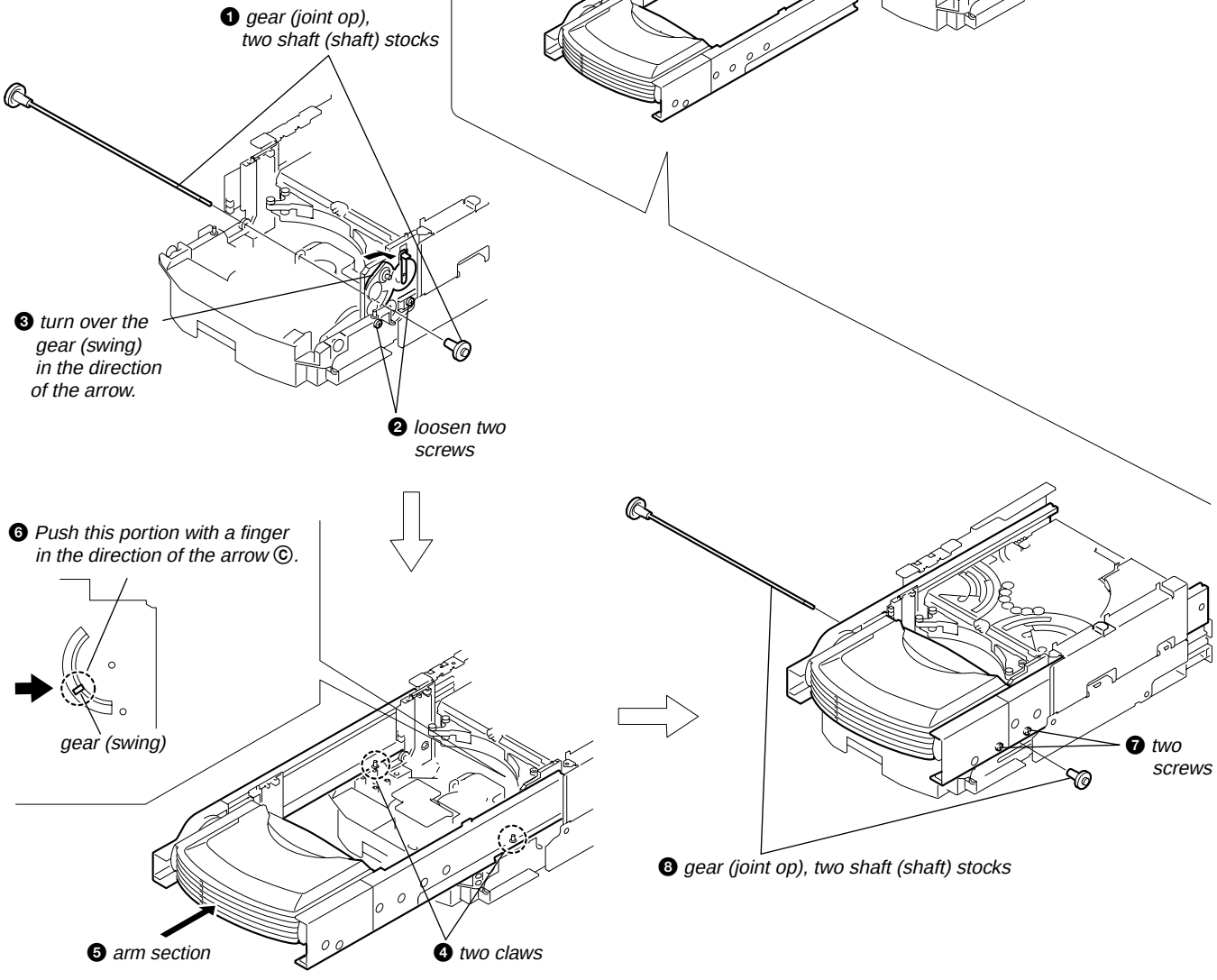

❶ screw (BTP 2 × 8)
❷ gear (connection tp)
❸ two screws (BTP 2 × 8)
❹ two screws (PTPWH 2 × 14)
❼ top section
shock guard (lower)
❻ shock guard (lower)
❺ claw
❽ shaft (connection)

3-16. ARM SECTION

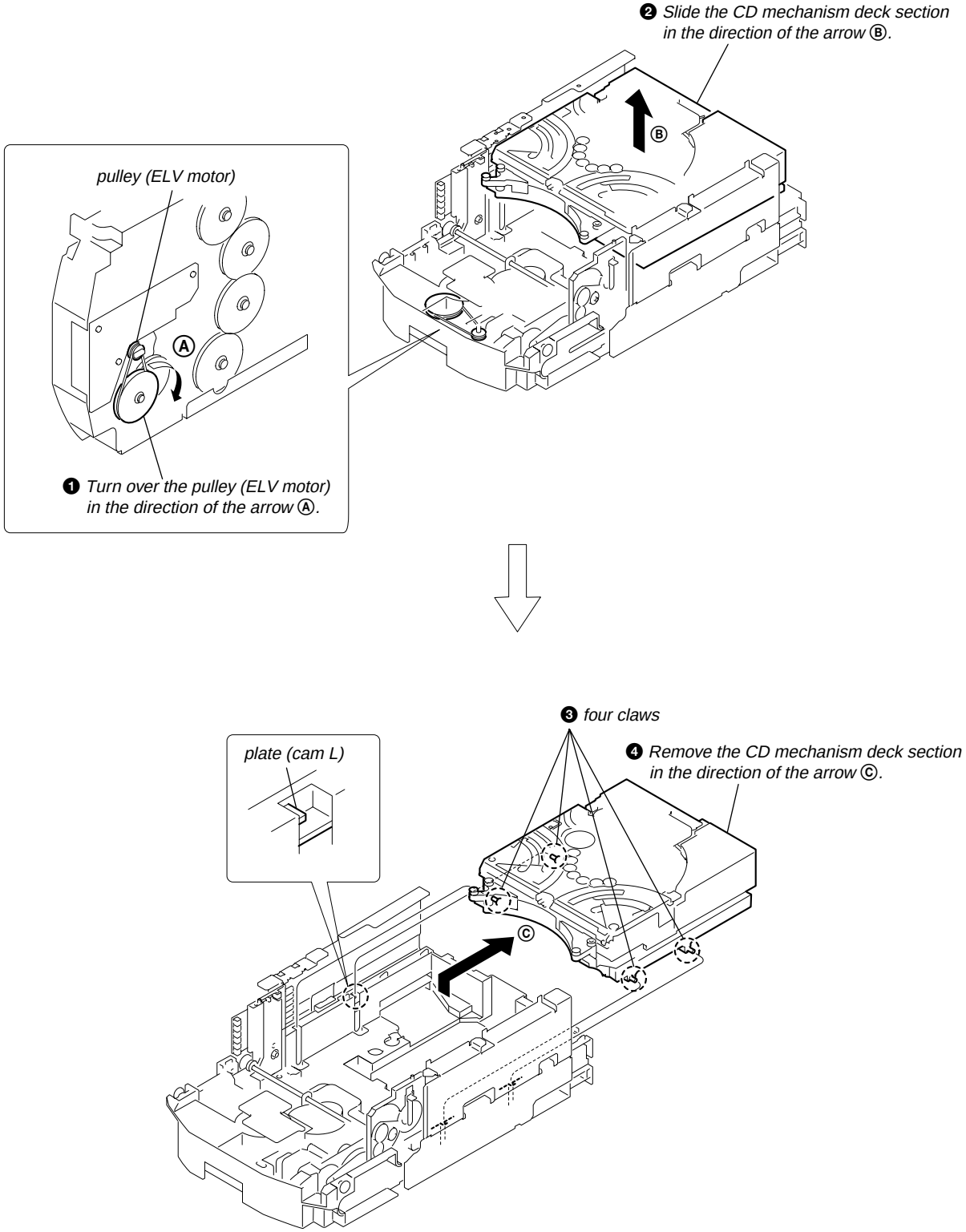

❷ Slide the arm section in the direction of the arrow Ⓑ.
❸ claw
❺ Remove the arm section in the direction of the arrow Ⓓ.
Ⓑ
Ⓐ
Ⓒ
Ⓓ
❹ Push this portion with a finger in the direction of the arrow Ⓒ.
❶ Turn over the pulley (LOD motor) in the direction of the arrow Ⓐ.



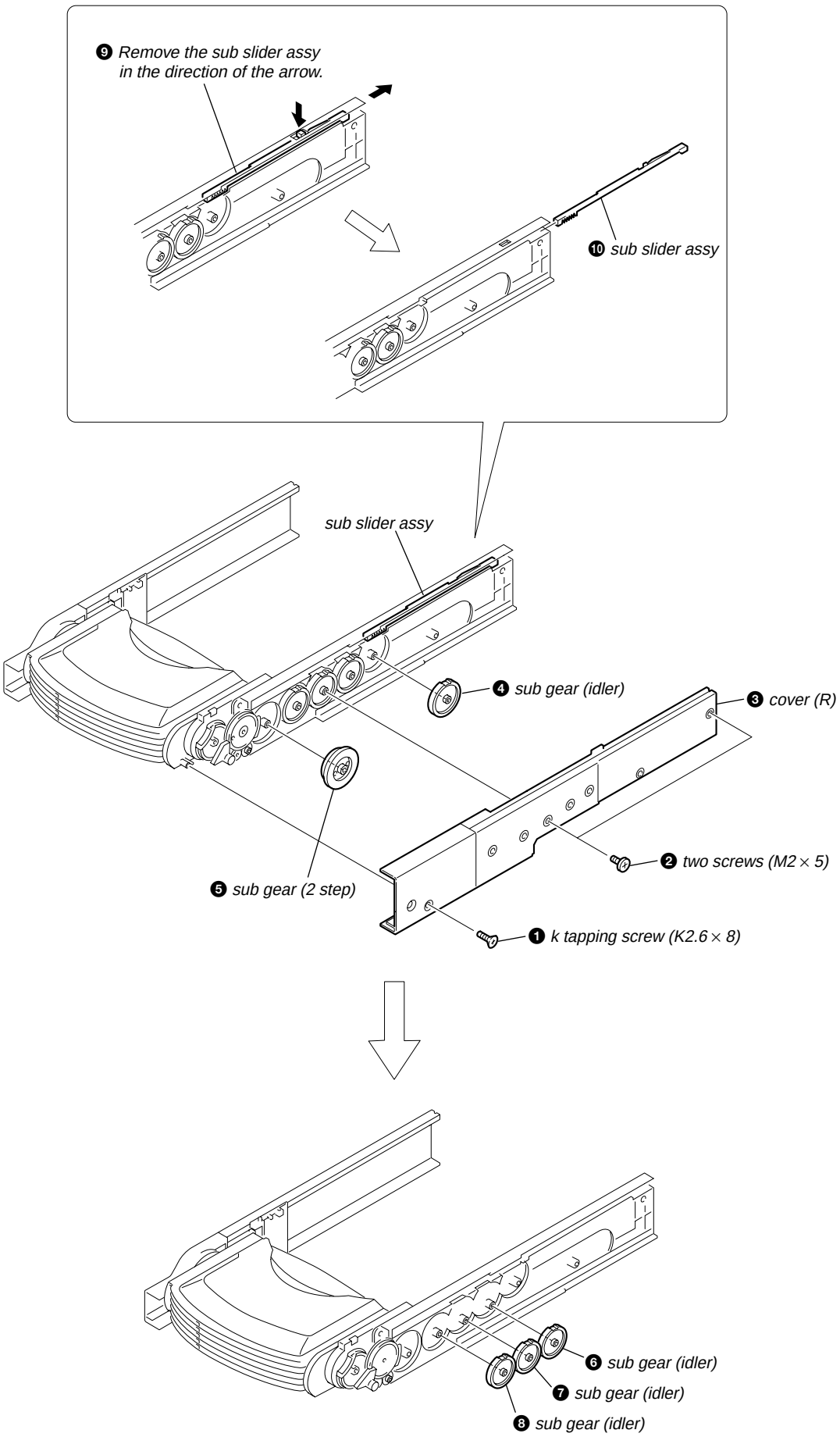
PRECAUTION DURING ARM SECTION INSTALLATION


❶ gear (joint op), two shaft (shaft) stocks
❸ turn over the gear (swing) in the direction of the arrow.
❷ loosen two screws
❻ Push this portion with a finger in the direction of the arrow Ⓒ.
gear (swing)
❺ arm section
❹ two claws
❼ two screws
❽ gear (joint op), two shaft (shaft) stocks

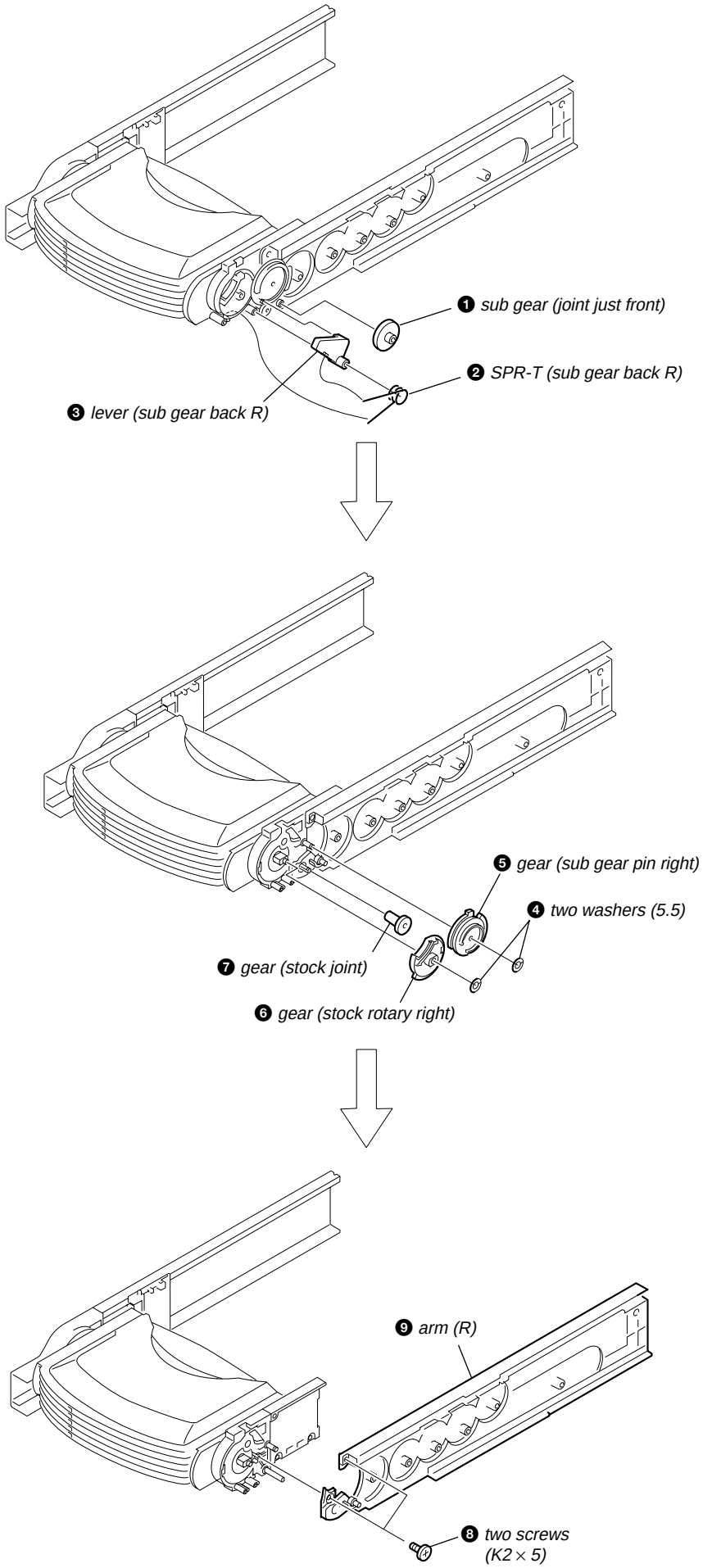
3-17. CD MECHANISM DECK SECTION


❷ Slide the CD mechanism deck section in the direction of the arrow Ⓑ.
pulley (ELV motor)
Ⓐ
Ⓑ
❶ Turn over the pulley (ELV motor) in the direction of the arrow Ⓐ.
❸ four claws
❹ Remove the CD mechanism deck section in the direction of the arrow Ⓒ.
plate (cam L)
Ⓒ

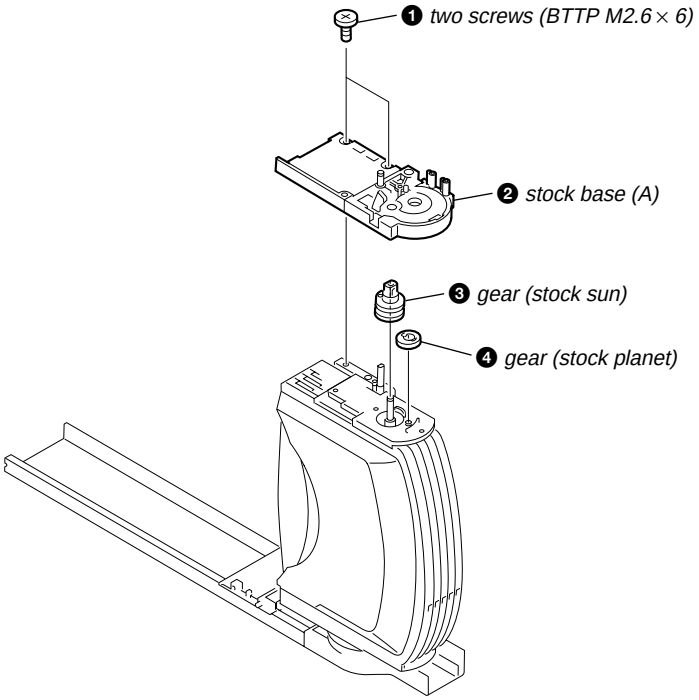
3-18. SUB GEAR (2 STEP), SUB SLIDER ASSY


❾ Remove the sub slider assy in the direction of the arrow.
❿ sub slider assy
sub slider assy
❹ sub gear (idler)
❸ cover (R)
❷ two screws (M2 × 5)
❺ sub gear (2 step)
❶ k tapping screw (K2.6 × 8)
❻ sub gear (idler)
❼ sub gear (idler)
❽ sub gear (idler)

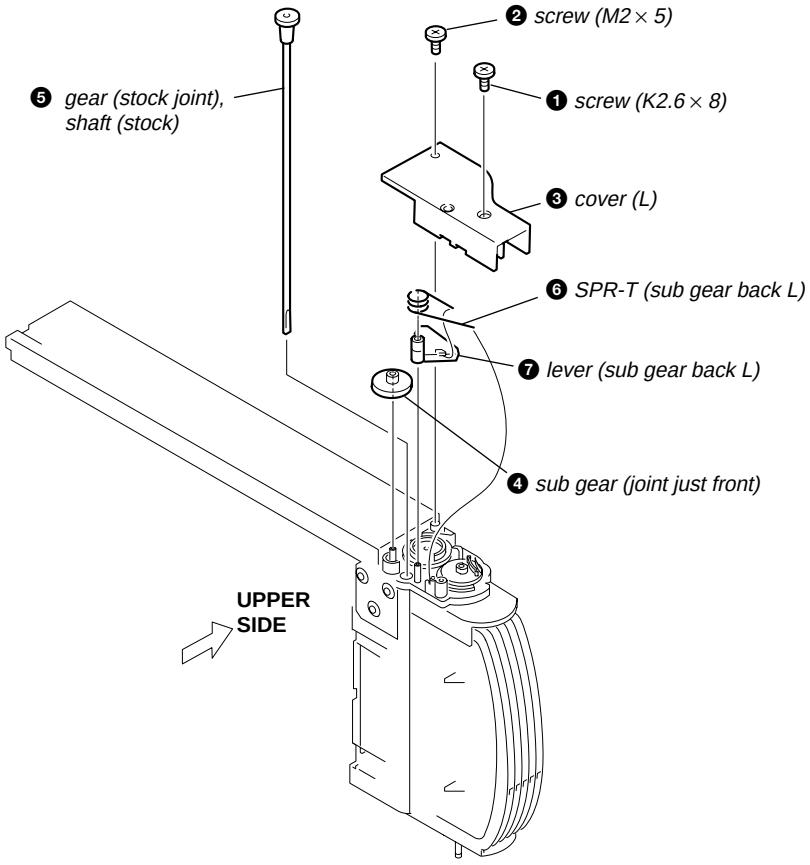
3-19. ARM (R)


❶ sub gear (joint just front)
❷ SPR-T (sub gear back R)
❸ lever (sub gear back R)
❺ gear (sub gear pin right)
❹ two washers (5.5)
❼ gear (stock joint)
❻ gear (stock rotary right)
❾ arm (R)
❽ two screws
(K2 × 5)

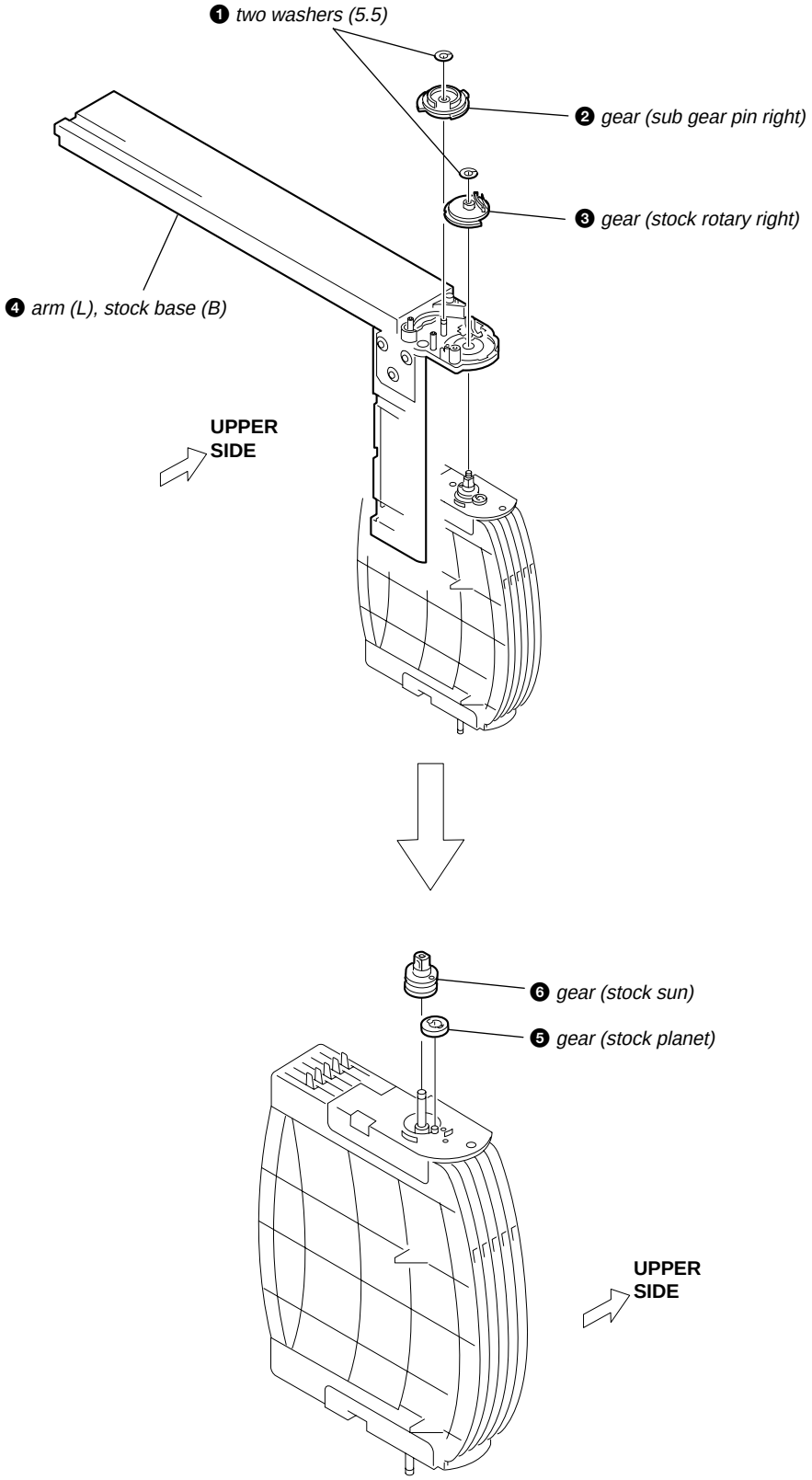
3-20. GEAR (STOCK PLANET) (RIGHT)



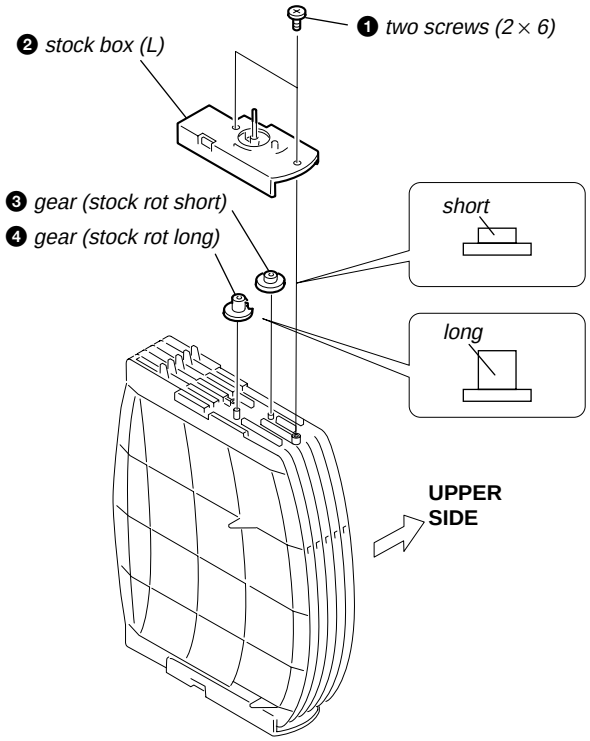
3-21. LEVER (SUB GEAR BACK L)


❷ screw (M2 × 5)
❺ gear (stock joint), shaft (stock)
❶ screw (K2.6 × 8)
❸ cover (L)
❻ SPR-T (sub gear back L)
❼ lever (sub gear back L)
❹ sub gear (joint just front)
UPPER SIDE

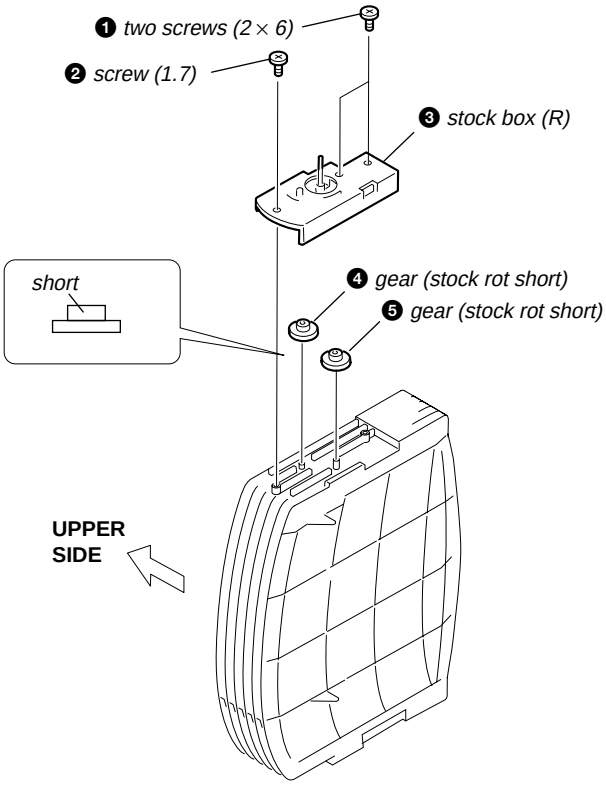
3-22. ARM (L)


❶ two washers (5.5)
❷ gear (sub gear pin right)
❸ gear (stock rotary right)
❹ arm (L), stock base (B)
UPPER SIDE
❻ gear (stock sun)
❺ gear (stock planet)
UPPER SIDE

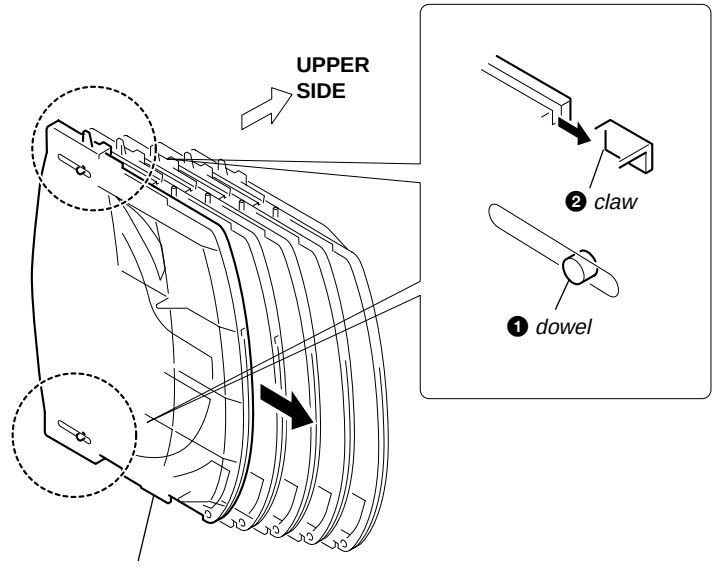
3-23. GEAR (STOCK ROT LONG) (LEFT)



3-24. GEAR (STOCK ROT SHORT) (RIGHT)

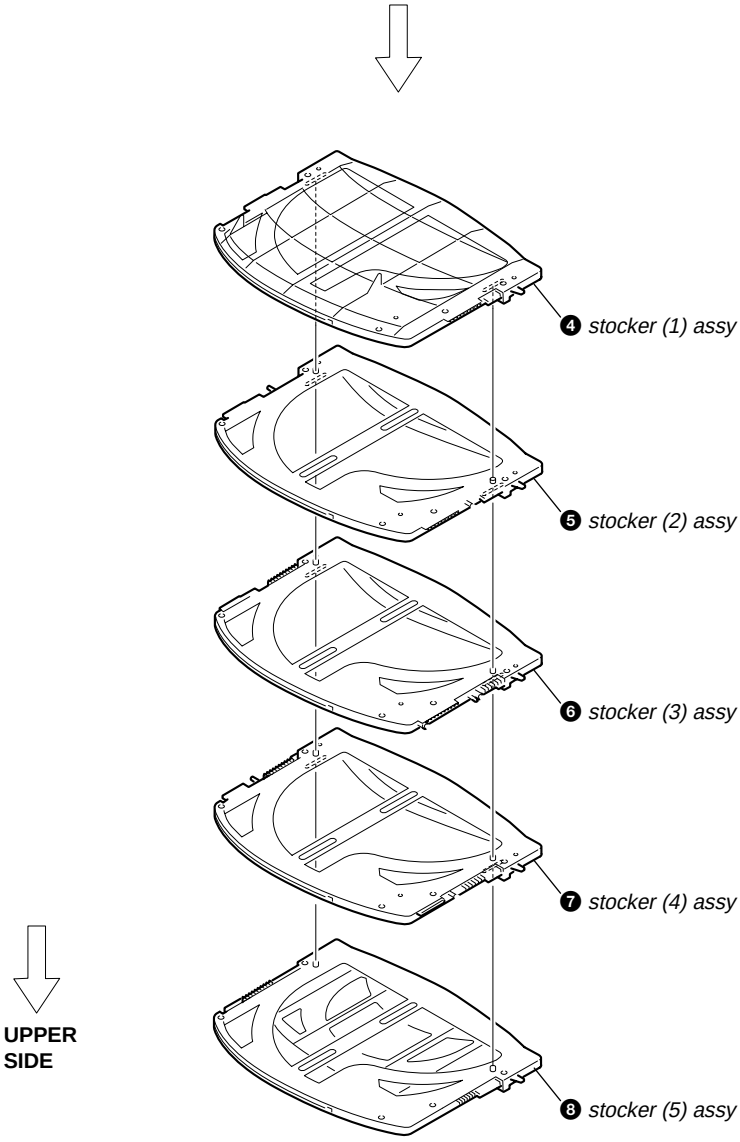


3-25. STOCKER (1) ASSY TO STOCKER (5) ASSY

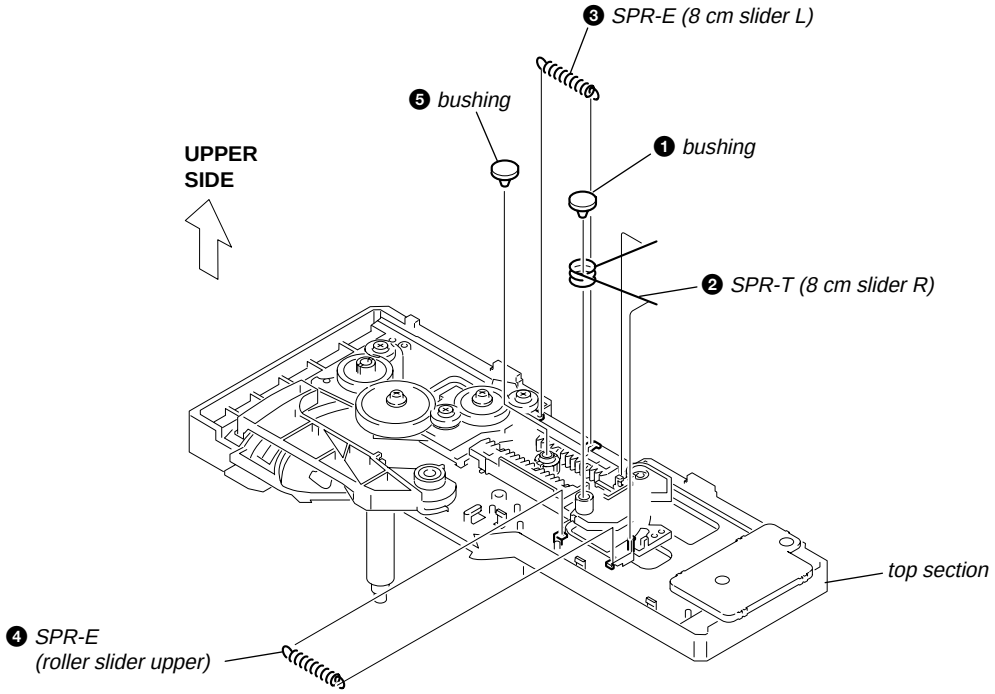


❸ *Remove the stocker (1) assy in the direction of the arrow.*

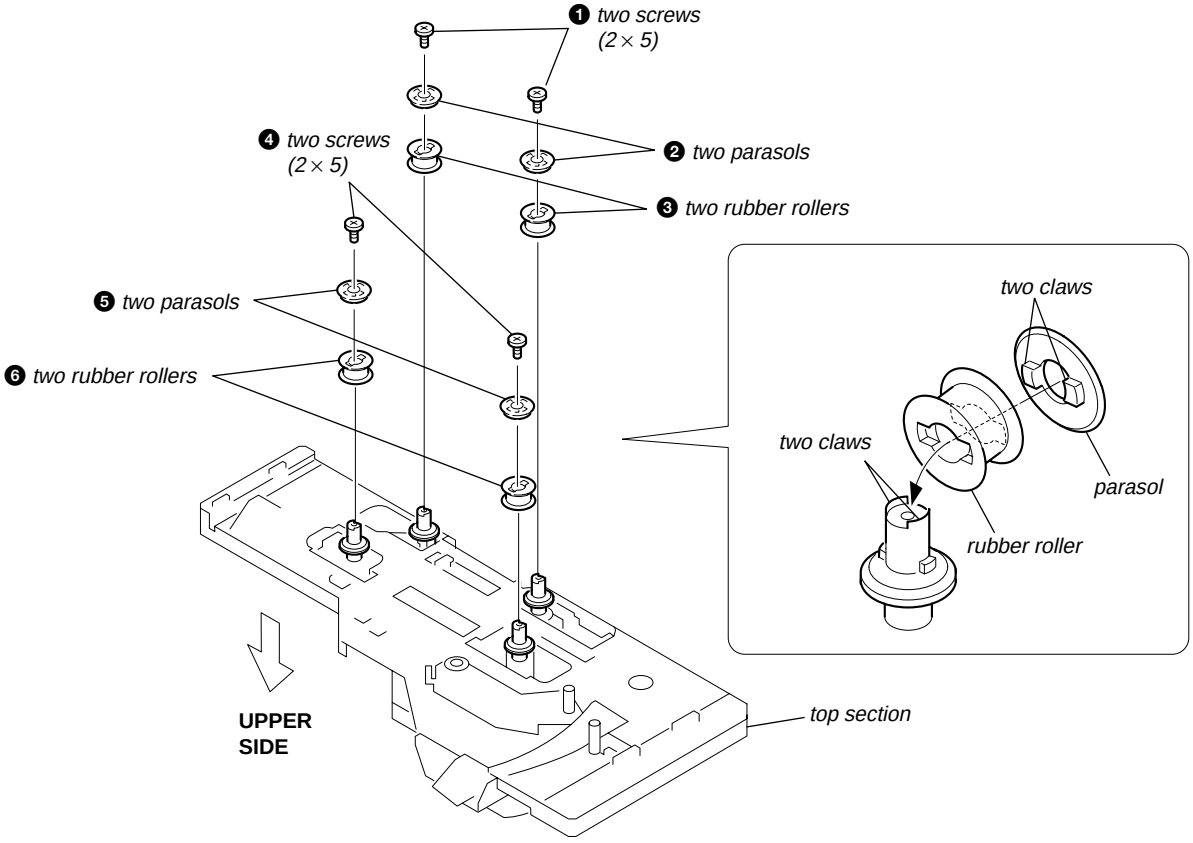
Repeat the steps ❶ *to* ❶*, when removing the part (2), (3), (4) and (5) of the stocker assy.*



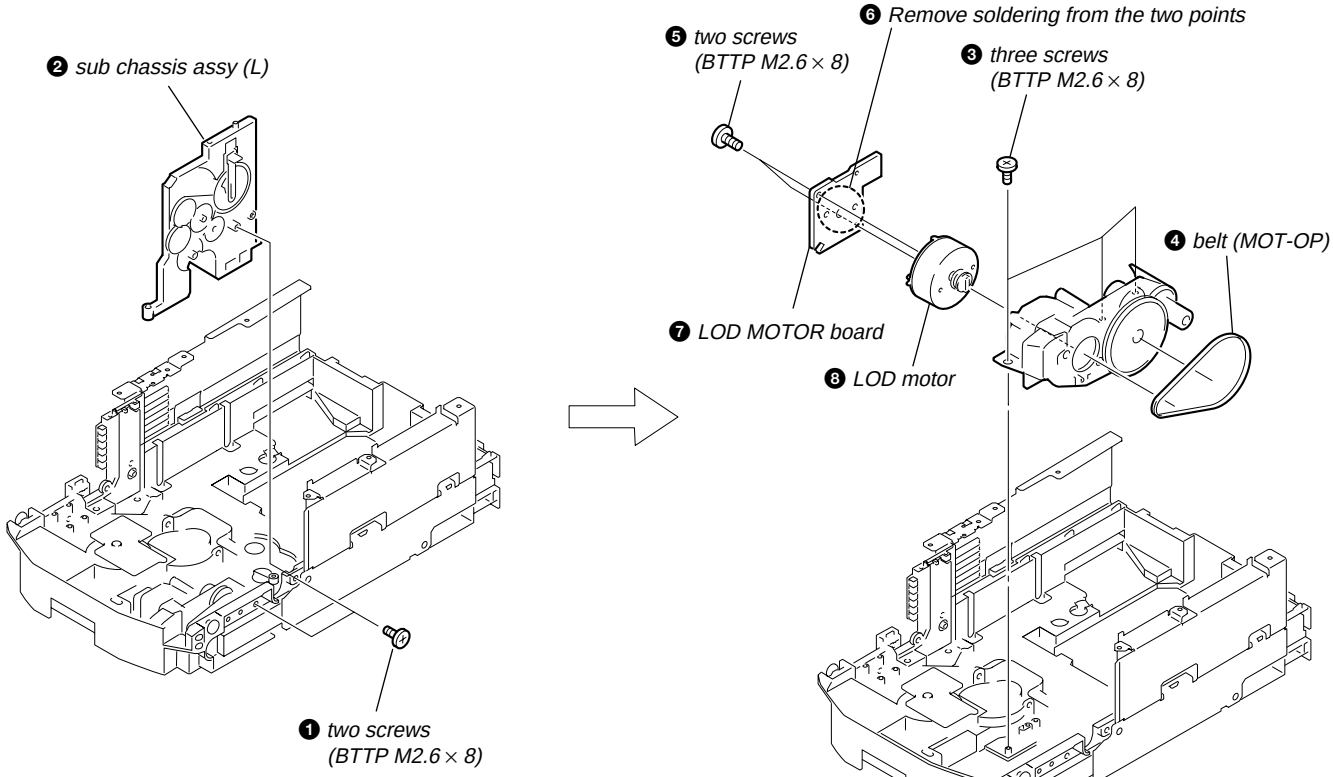
3-26. SPR-E (ROLLER SLIDER UPPER) (TOP SECTION)



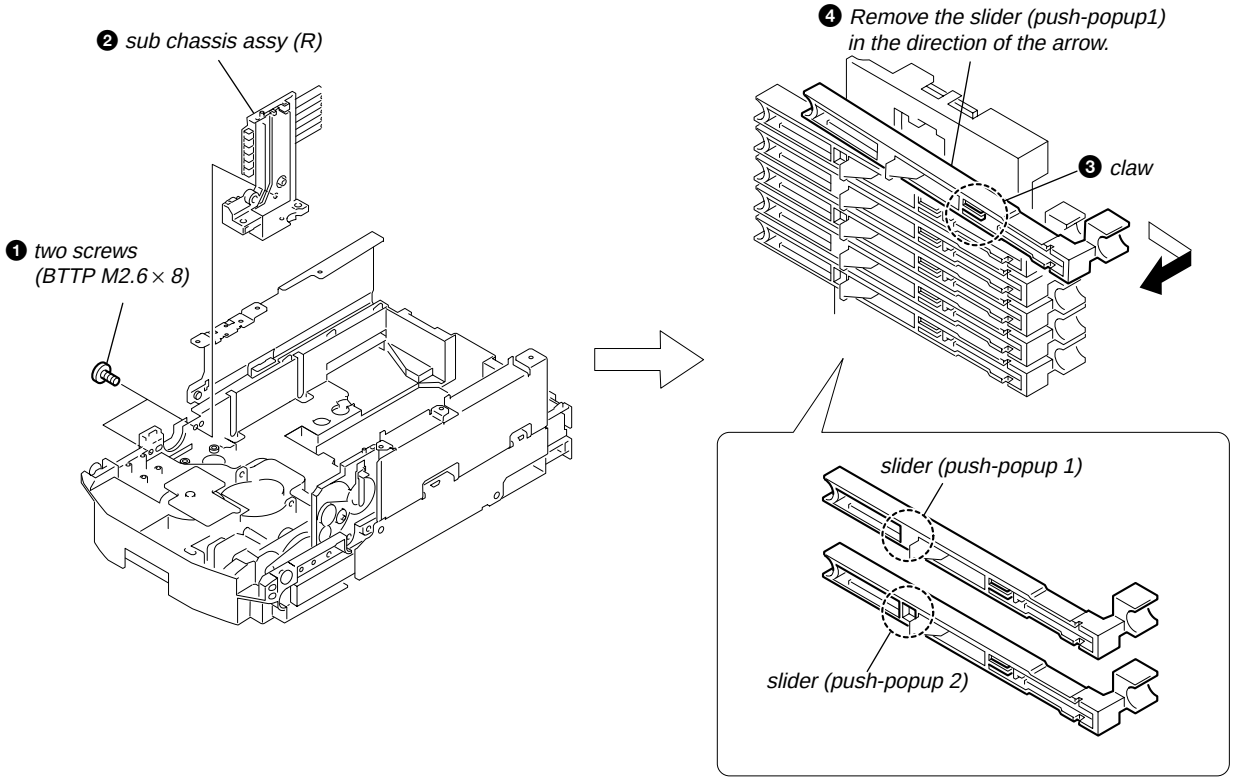
3-27. RUBBER ROLLER (TOP SECTION)



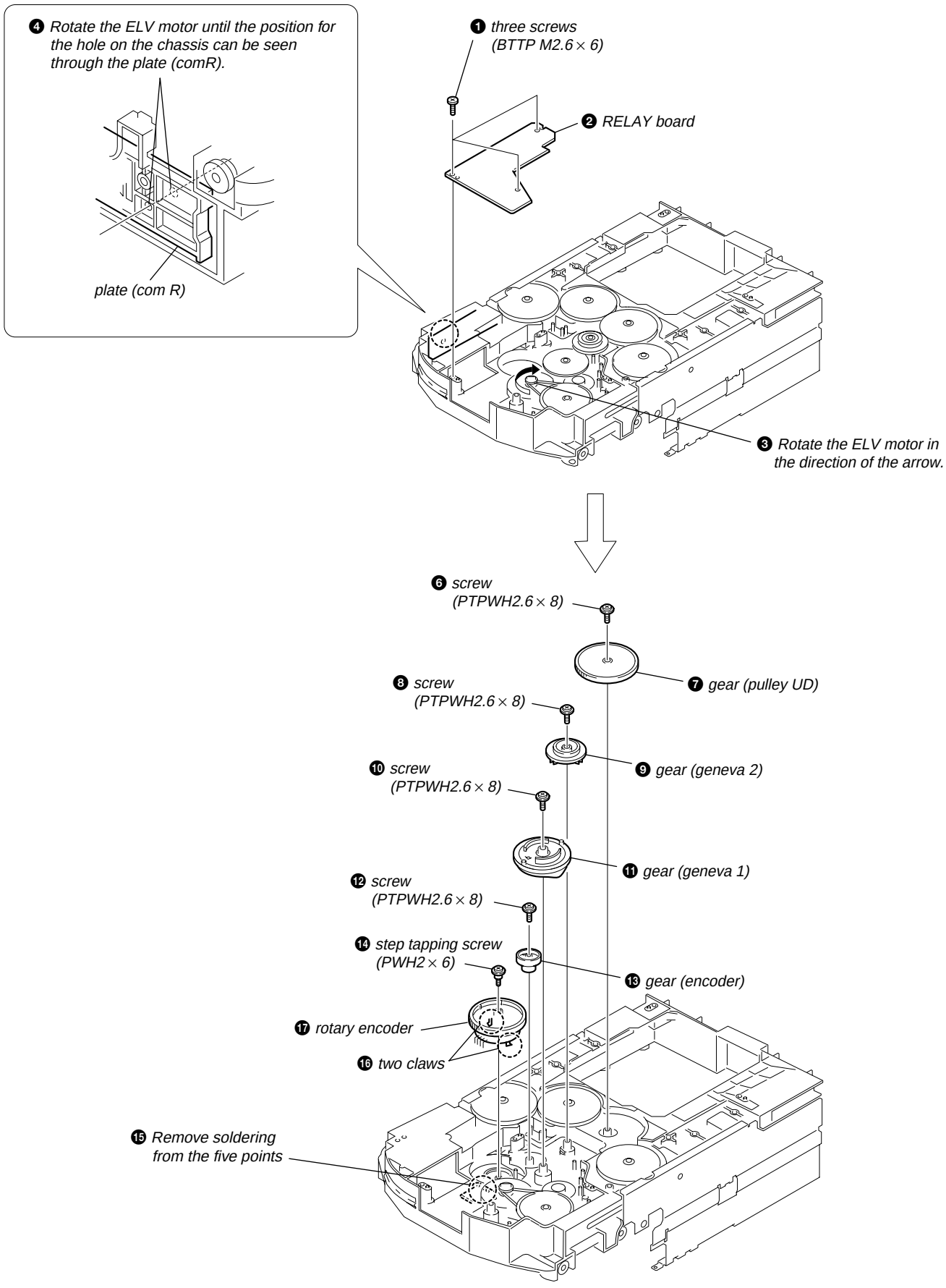
3-28. LOD MOTOR


❷ sub chassis assy (L)
❶ two screws (BTTP M2.6 × 8)
❺ two screws (BTTP M2.6 × 8)
❻ Remove soldering from the two points
❸ three screws (BTTP M2.6 × 8)
❹ belt (MOT-OP)
❼ LOD MOTOR board
❽ LOD motor

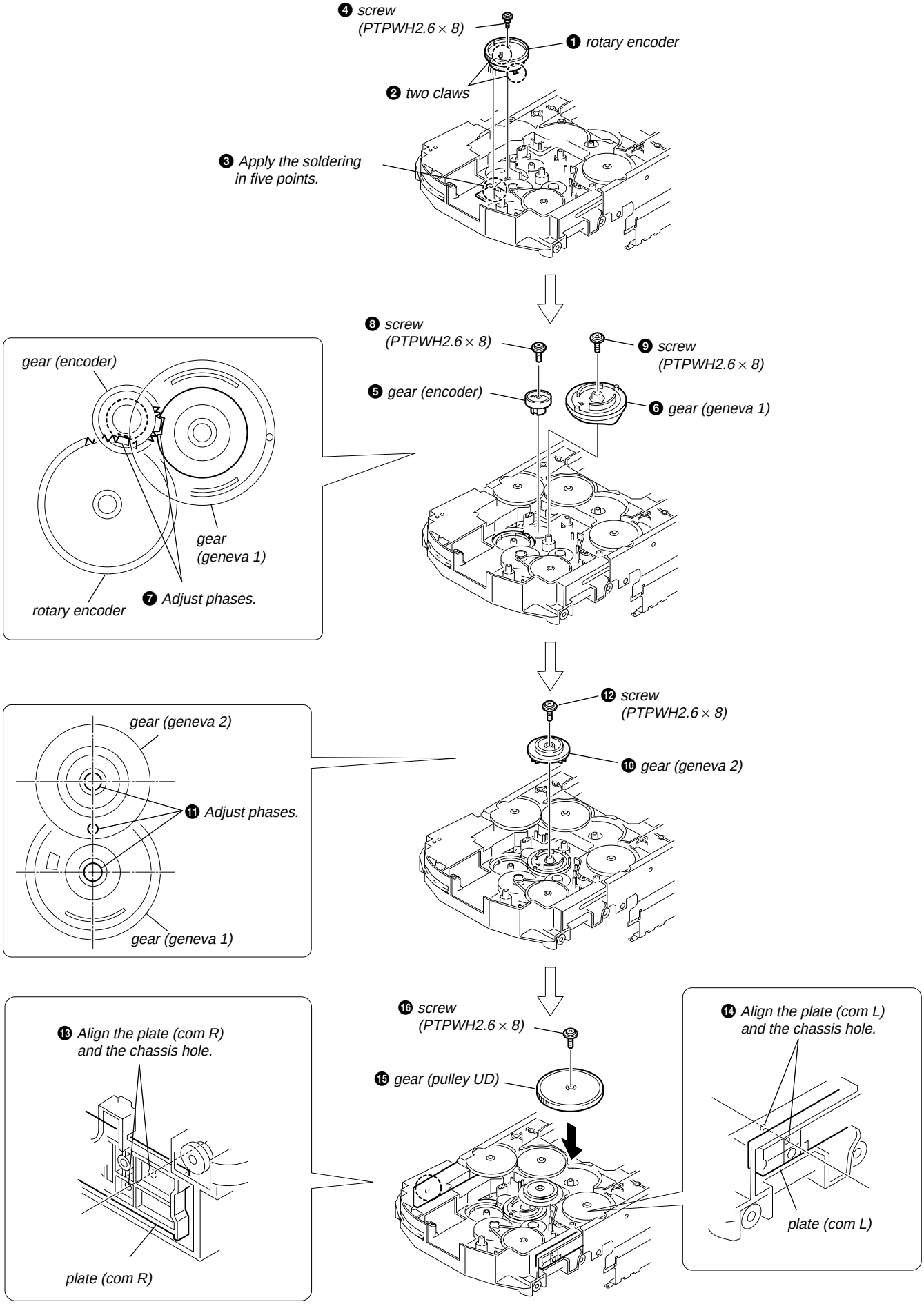
3-29. SLIDER (PUSH-POPUP)


❷ sub chassis assy (R)
❶ two screws (BTTP M2.6 × 8)
❹ Remove the slider (push-popup1) in the direction of the arrow.
❸ claw
slider (push-popup 1)
slider (push-popup 2)

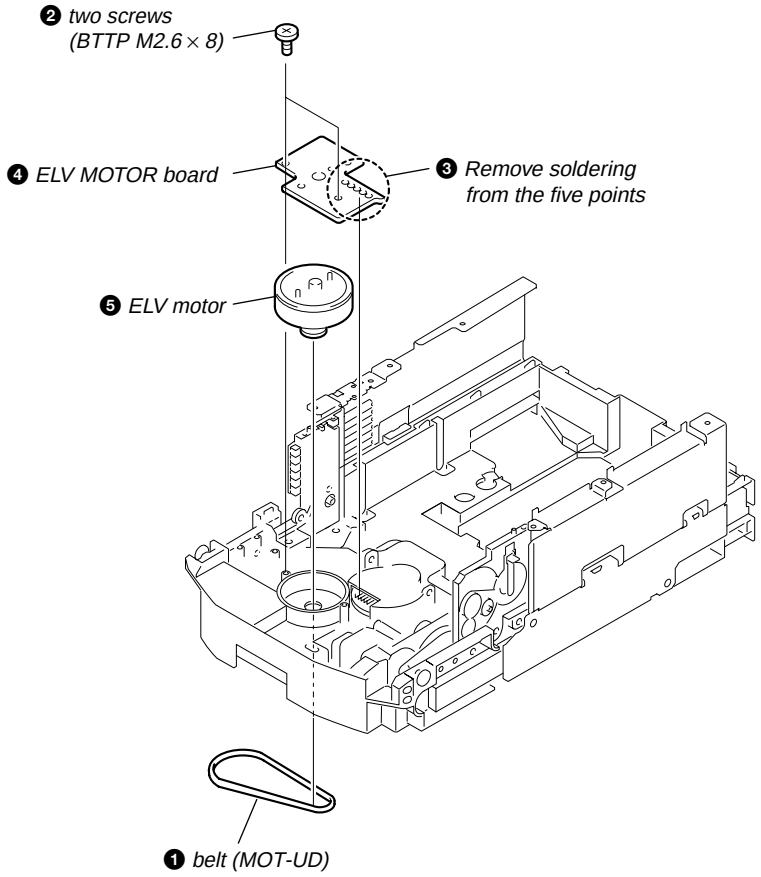
3-30. ROTARY ENCODER

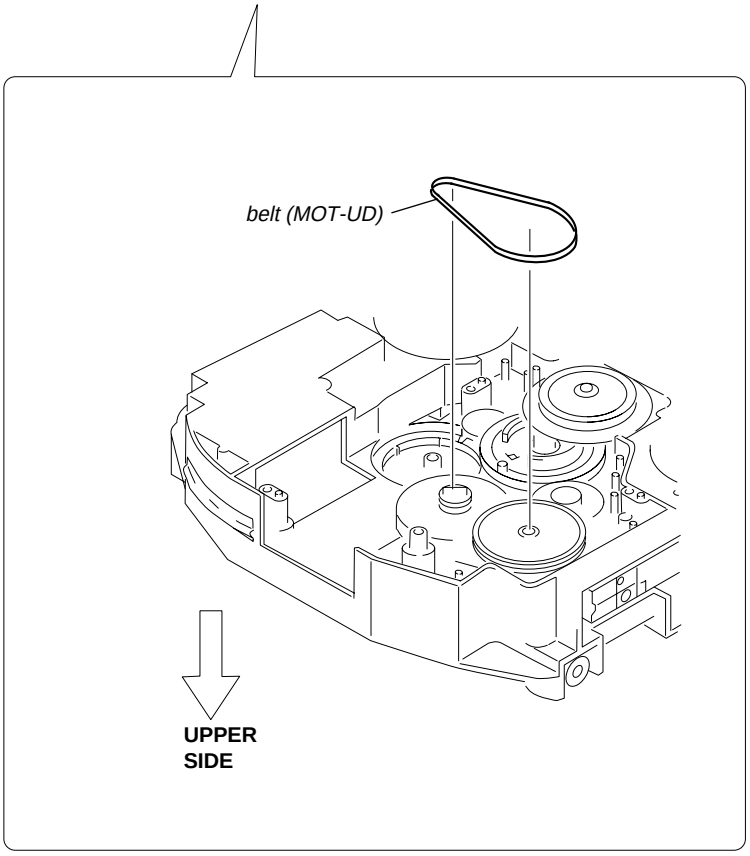

❹ Rotate the ELV motor until the position for the hole on the chassis can be seen through the plate (comR).
plate (com R)
❶ three screws (BTTP M2.6 × 6)
❷ RELAY board
❸ Rotate the ELV motor in the direction of the arrow.
❻ screw (PTPWH2.6 × 8)
❼ gear (pulley UD)
❽ screw (PTPWH2.6 × 8)
❾ gear (geneva 2)
❿ screw (PTPWH2.6 × 8)
⓫ gear (geneva 1)
⓬ screw (PTPWH2.6 × 8)
⓮ step tapping screw (PWH2 × 6)
⓭ gear (encoder)
⓱ rotary encoder
⓰ two claws
⓯ Remove soldering from the five points

3-31. ASSEMBLING OF THE ROTARY ENCODER

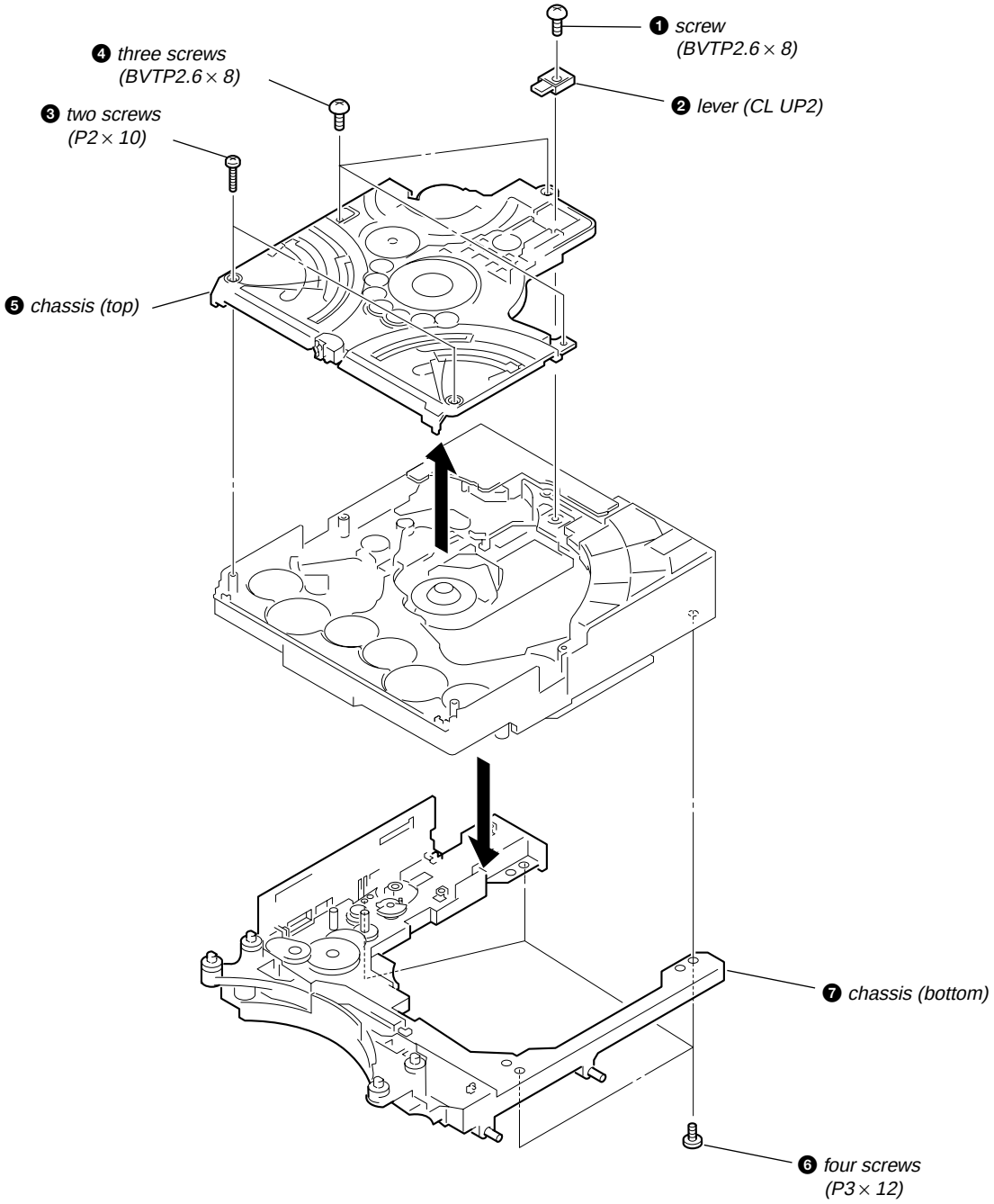

❹ screw (PTPWH2.6 × 8)
❶ rotary encoder
❷ two claws
❸ Apply the soldering in five points.
❽ screw (PTPWH2.6 × 8)
❾ screw (PTPWH2.6 × 8)
❺ gear (encoder)
❻ gear (geneva 1)
gear (encoder)
gear (geneva 1)
rotary encoder
❼ Adjust phases.
❿ gear (geneva 2)
⓬ screw (PTPWH2.6 × 8)
gear (geneva 2)
⓫ Adjust phases.
gear (geneva 1)
⓰ screw (PTPWH2.6 × 8)
⓯ gear (pulley UD)
⓭ Align the plate (com R) and the chassis hole.
plate (com R)
⓮ Align the plate (com L) and the chassis hole.
plate (com L)

3-32. ELV MOTOR

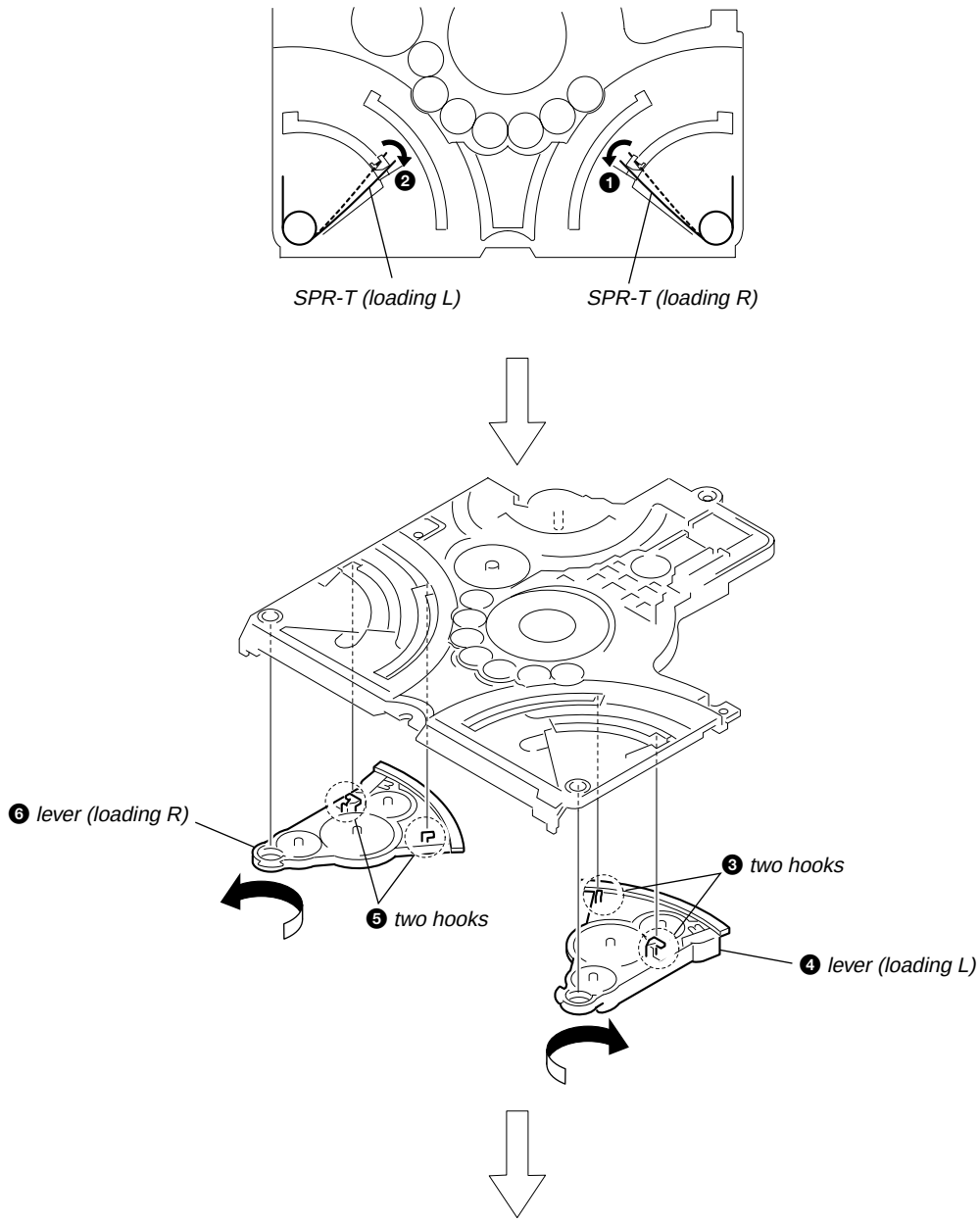




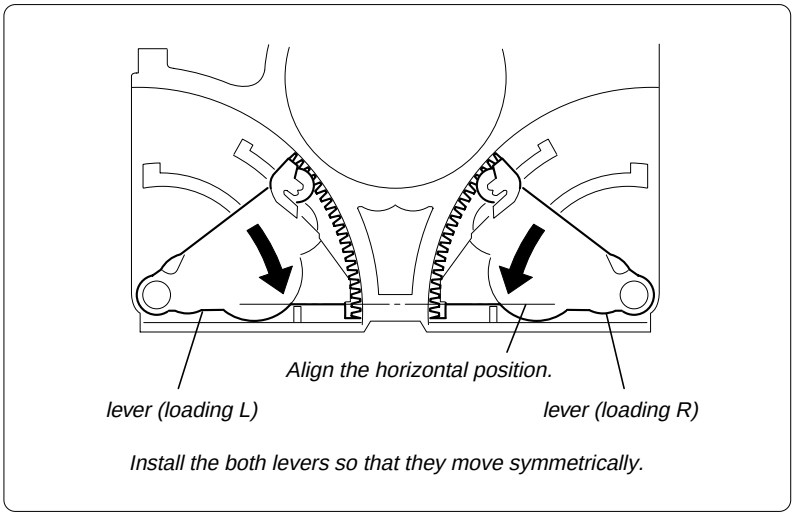
3-33. CHASSIS (TOP), CHASSIS (BOTTOM)



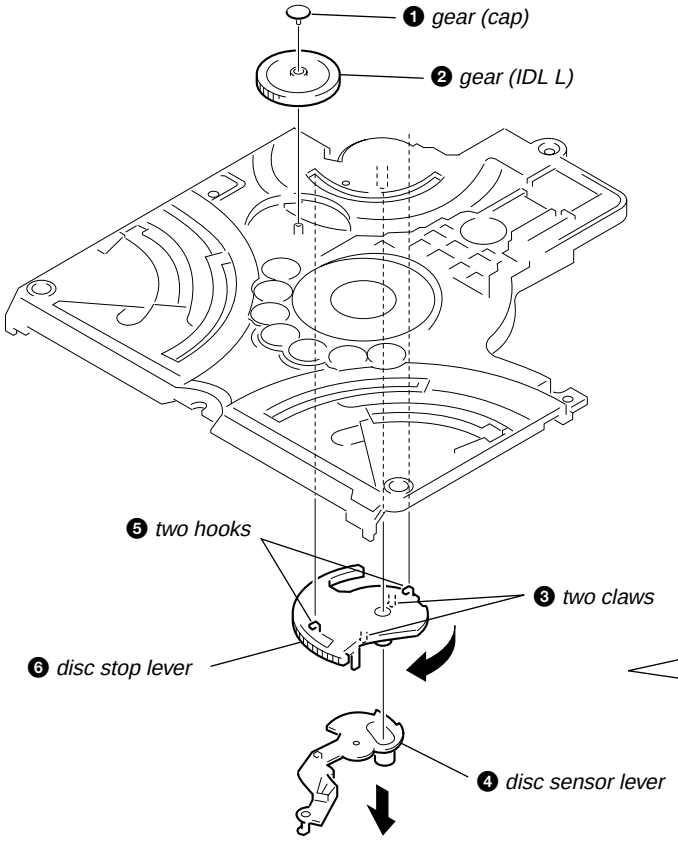
3-34. LEVER (LOADING R, LOADING L)



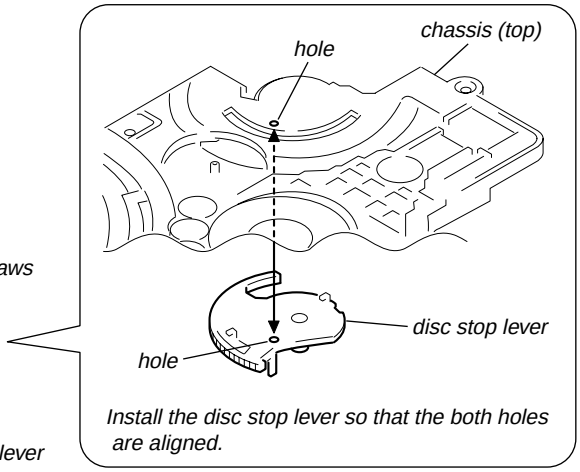
PRECAUTION DURING LEVER (LOADING R/L) INSTALLATION



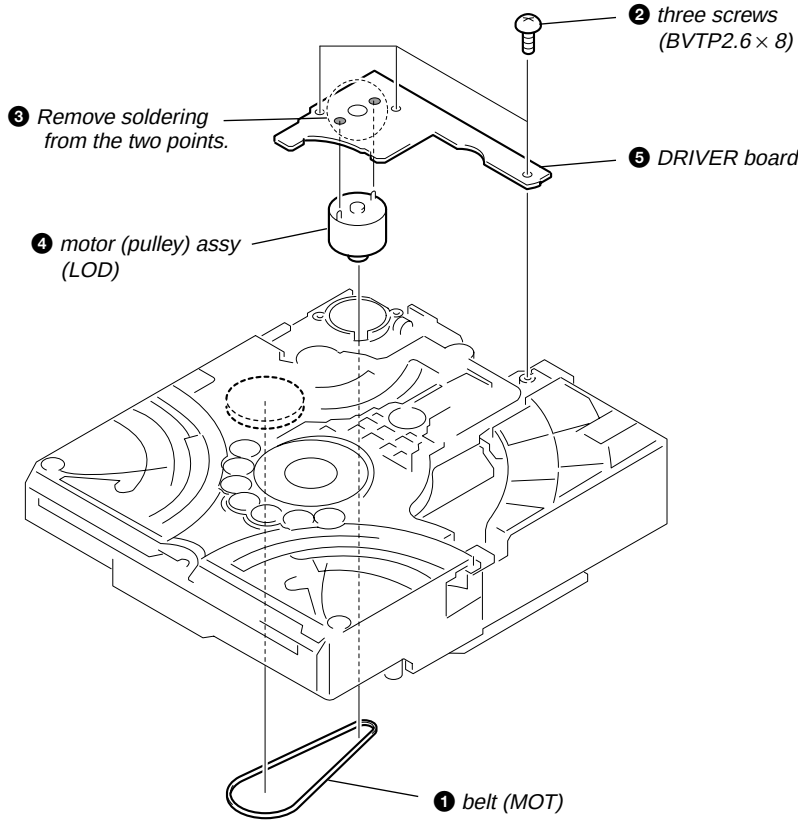
3-35. DISC STOP LEVER



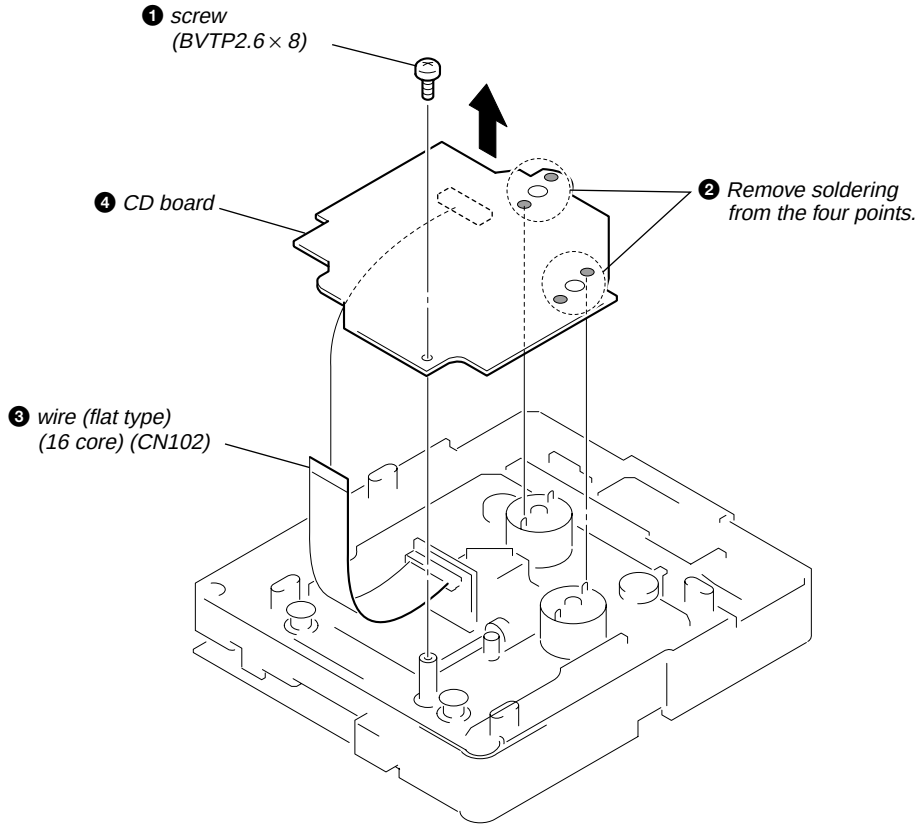
PRECAUTION DURING DISC STOP LEVER INSTALLATION



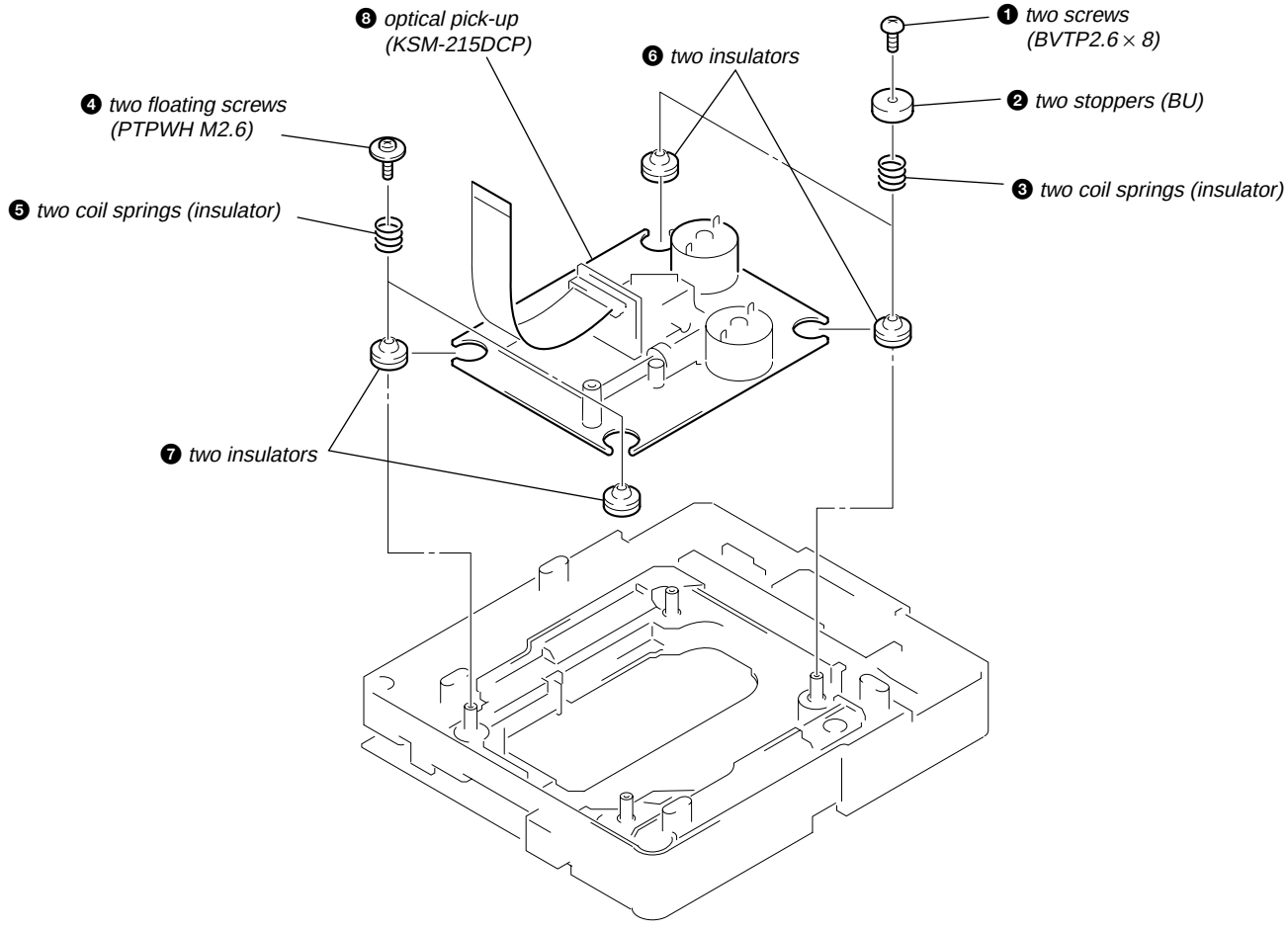
3-36. DRIVER BOARD



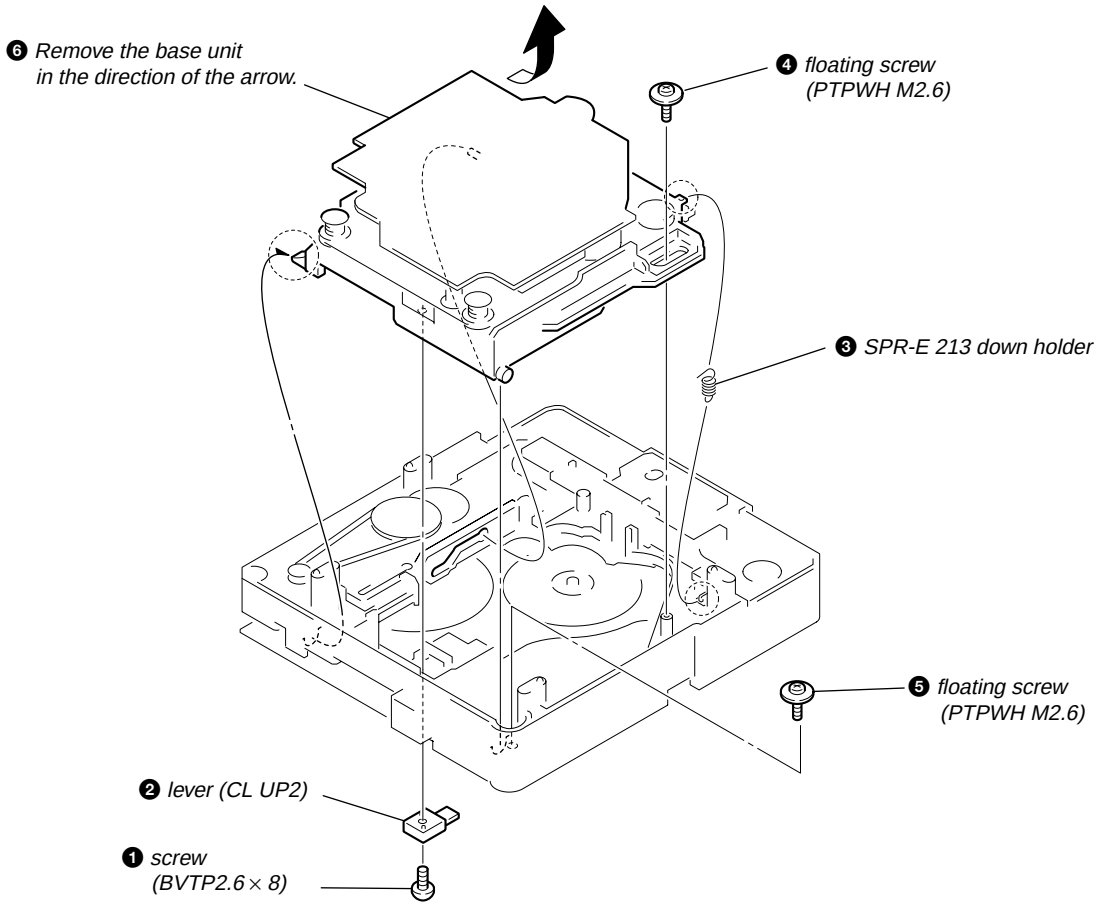
3-37. CD BOARD



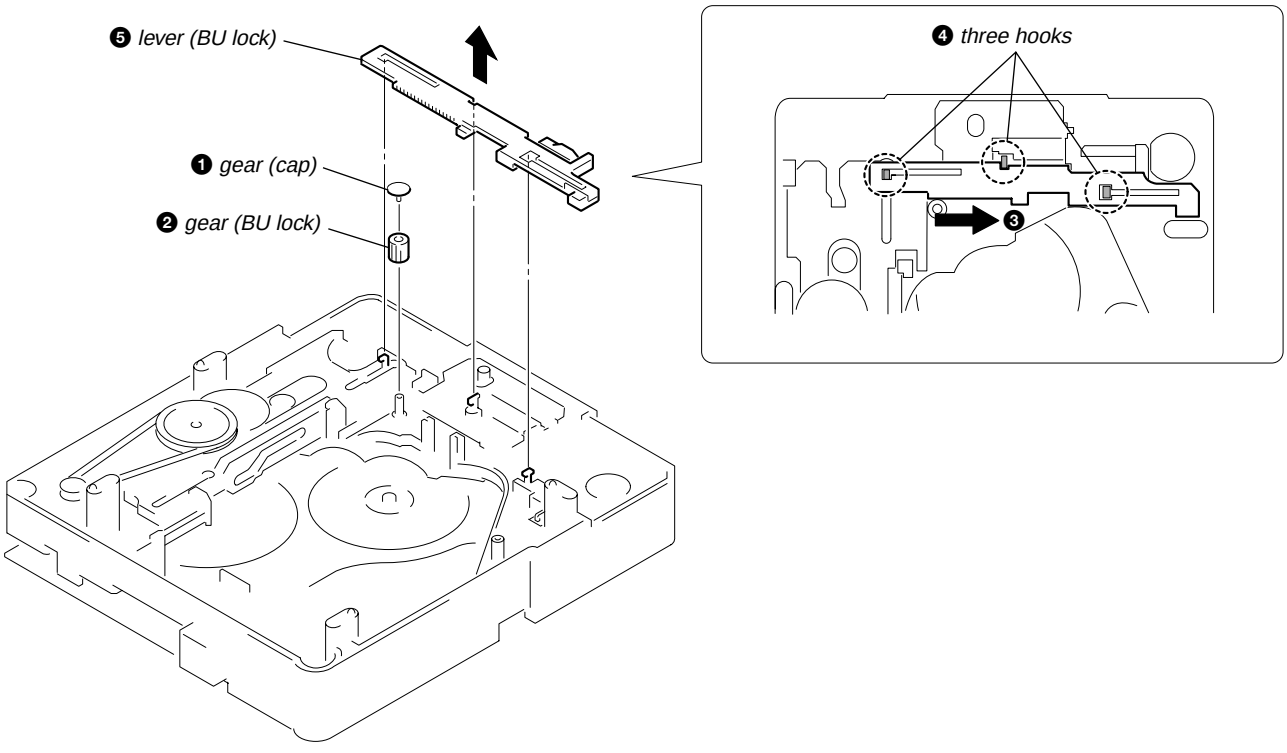
3-38. OPTICAL PICK-UP (KSM-215DCP)



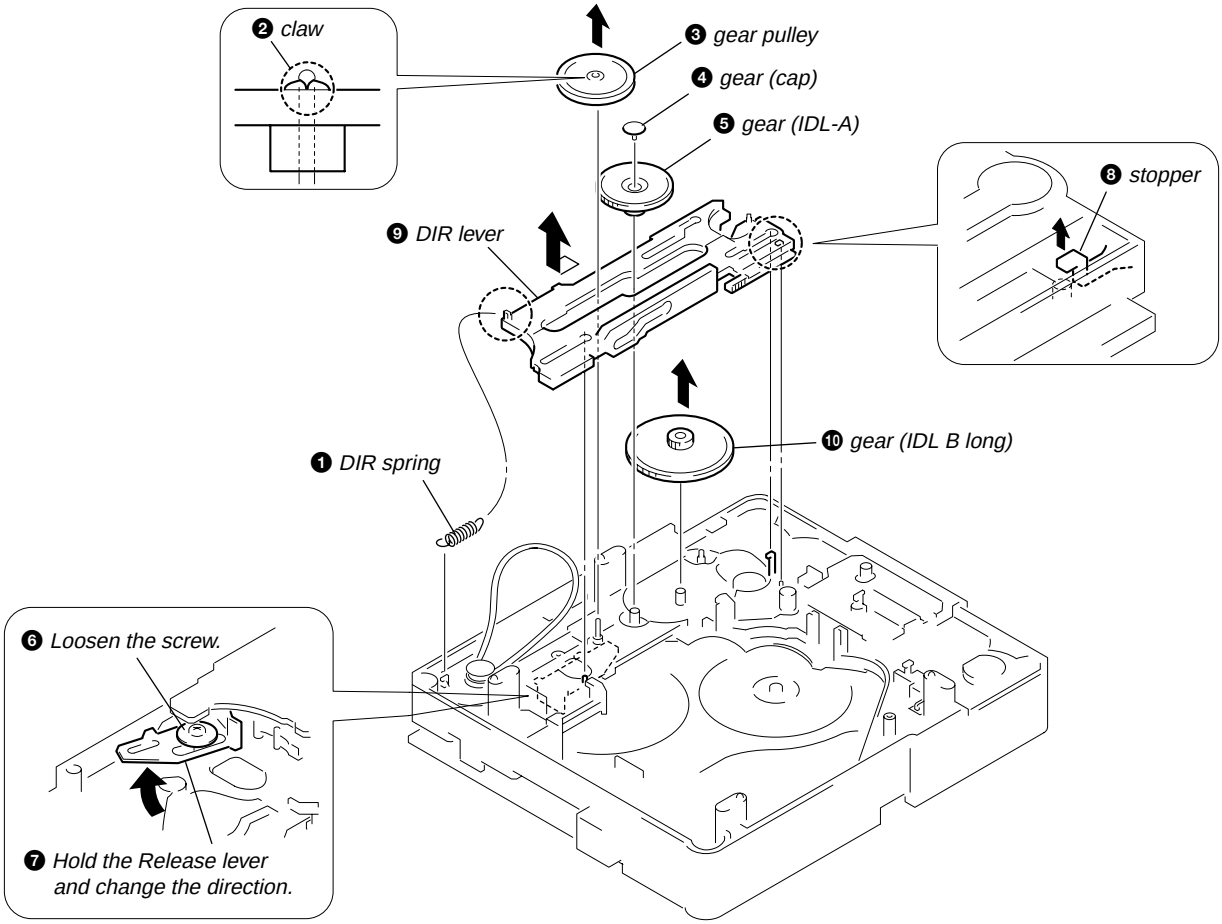
3-39. BASE UNIT SECTION


❻ Remove the base unit in the direction of the arrow.
❹ floating screw (PTPWH M2.6)
❸ SPR-E 213 down holder
❺ floating screw (PTPWH M2.6)
❷ lever (CL UP2)
❶ screw (BVTP2.6 × 8)

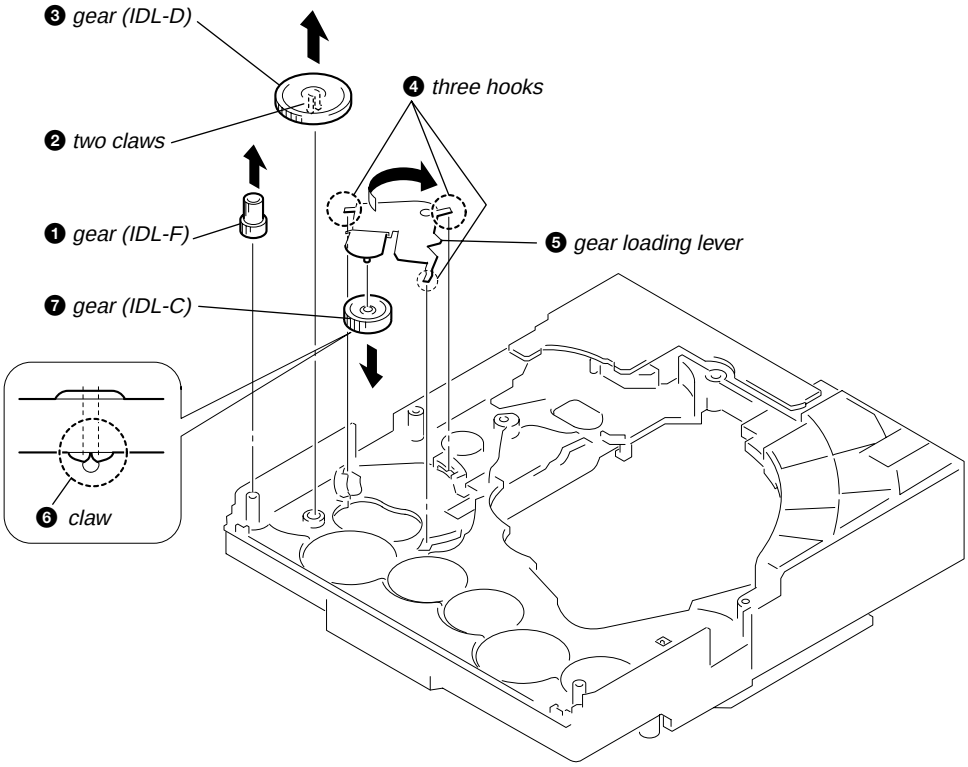
3-40. LEVER (BU LOCK)



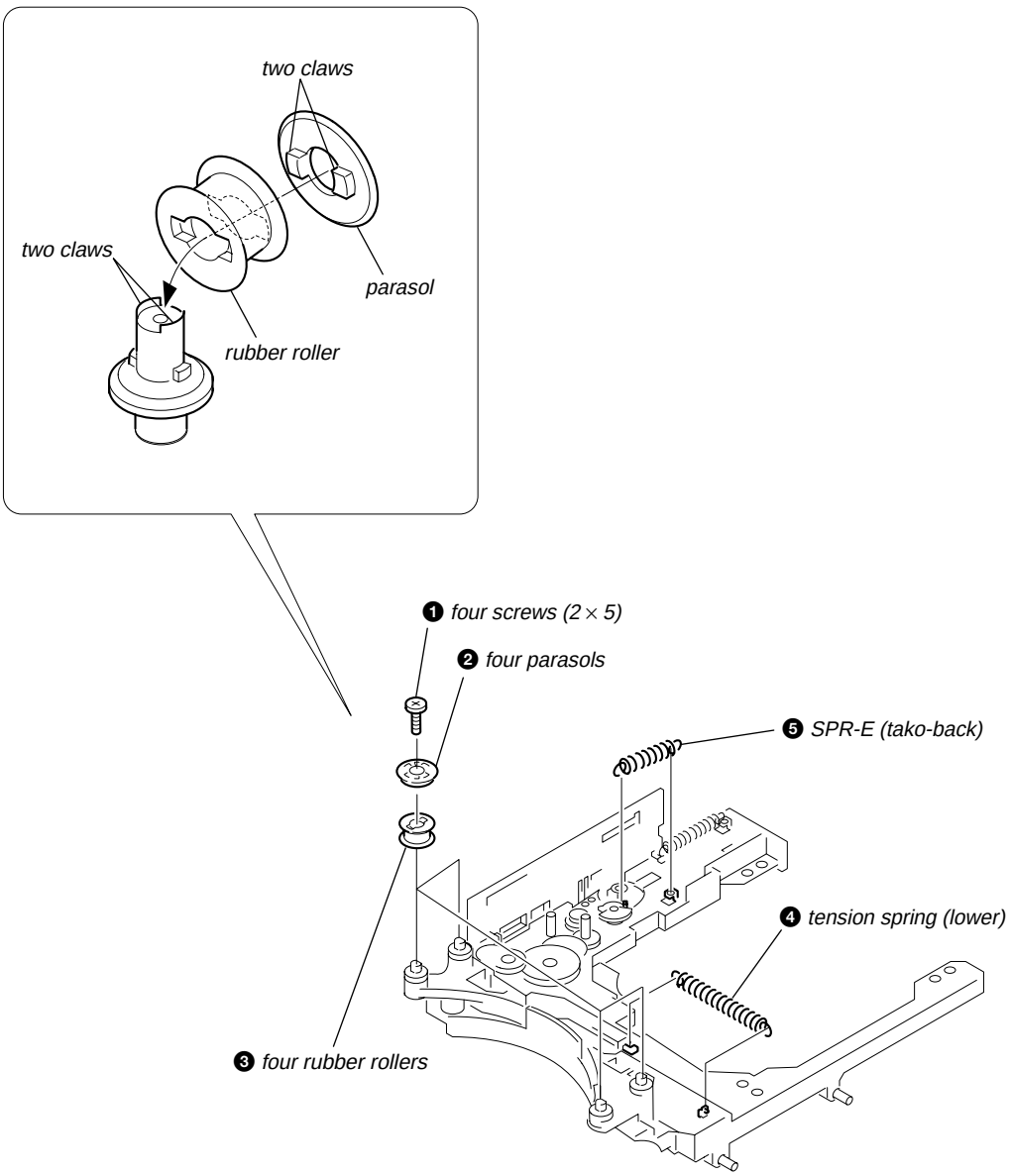
3-41. GEAR (IDL-B)



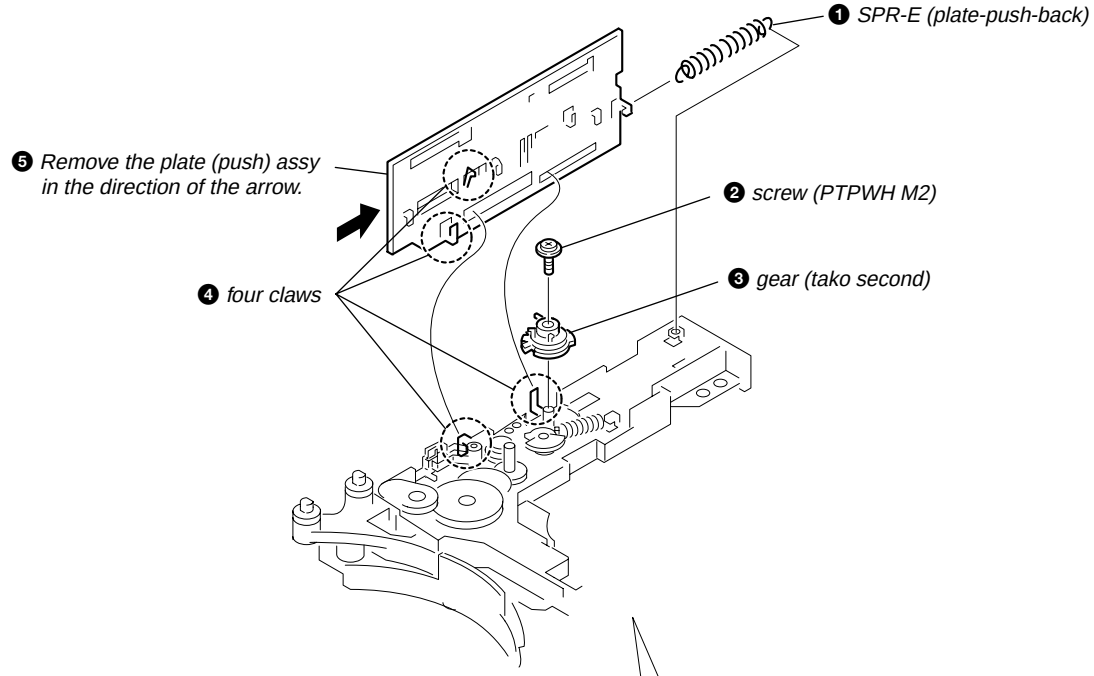
3-42. GEAR (IDL-C)



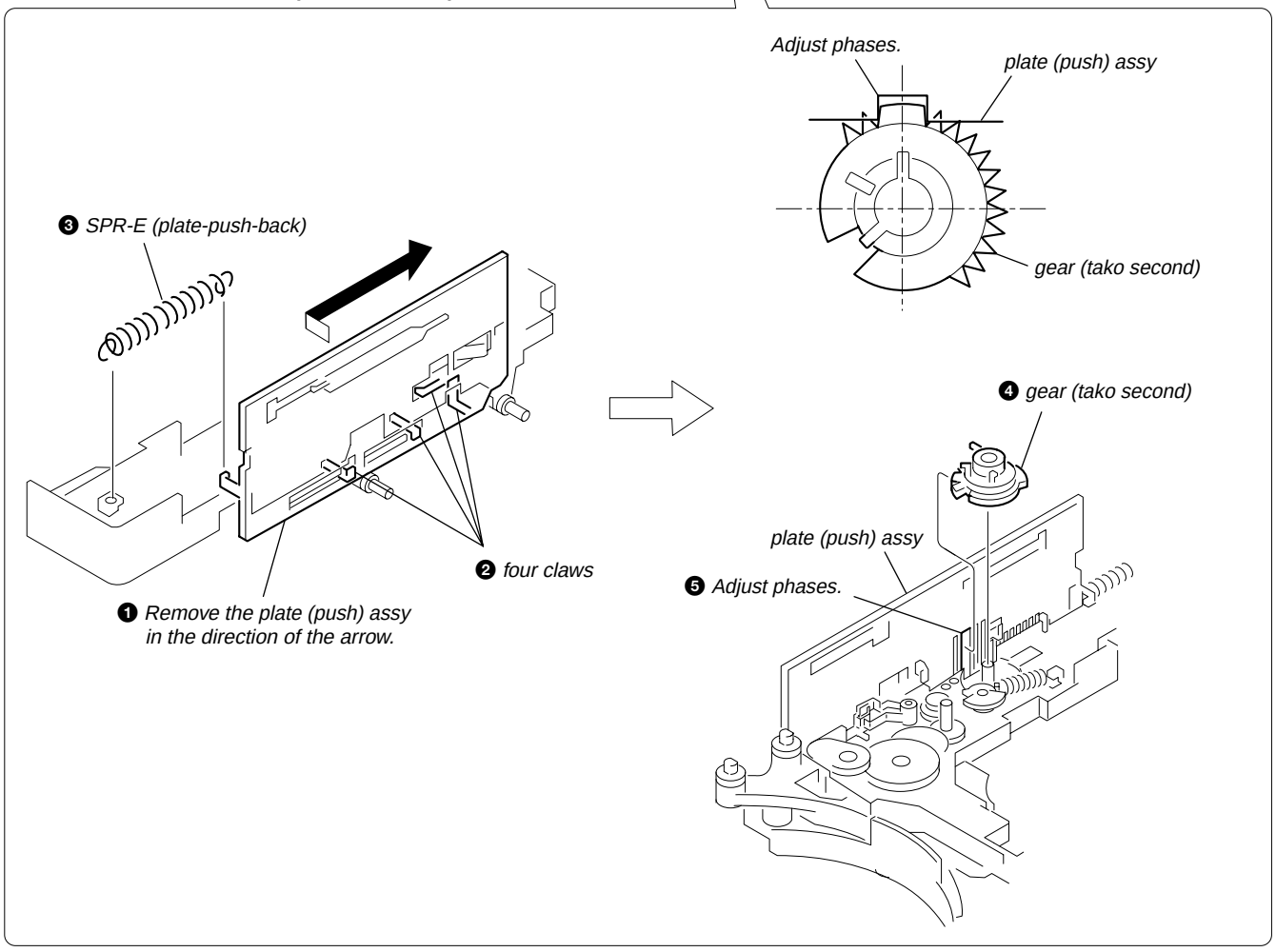
3-43. SPR-E (TAKO-BACK)



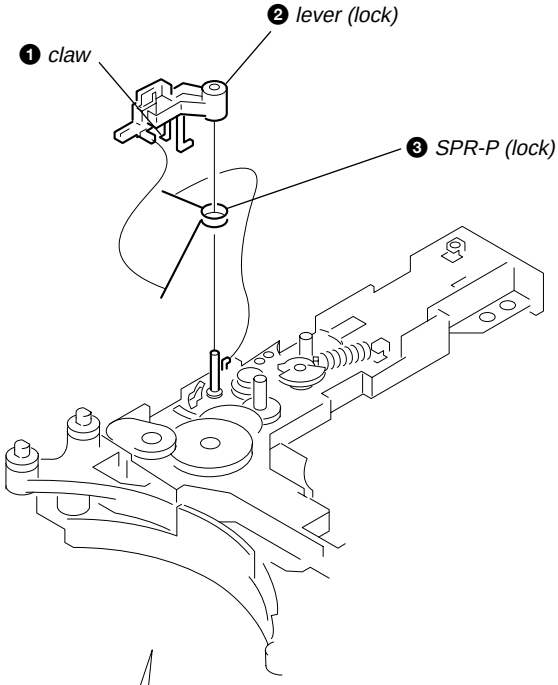
3-44. PLATE (PUSH) ASSY


❶ SPR-E (plate-push-back)
❺ Remove the plate (push) assy in the direction of the arrow.
❷ screw (PTPWH M2)
❹ four claws
❸ gear (tako second)

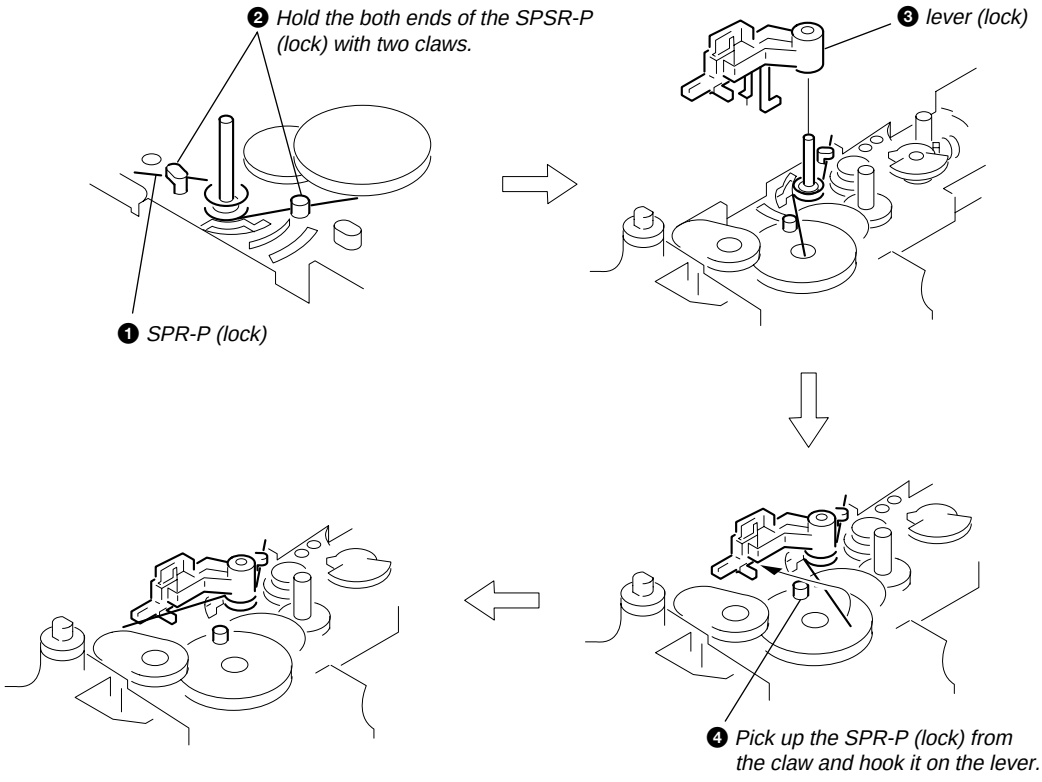
PRECAUTION DURING GEAR (TAKO SECOND) INSTALLATION


Adjust phases.
plate (push) assy
gear (tako second)
❸ SPR-E (plate-push-back)
❹ gear (tako second)
plate (push) assy
❺ Adjust phases.
❷ four claws
❶ Remove the plate (push) assy in the direction of the arrow.

3-45. SPR-P (LOCK)



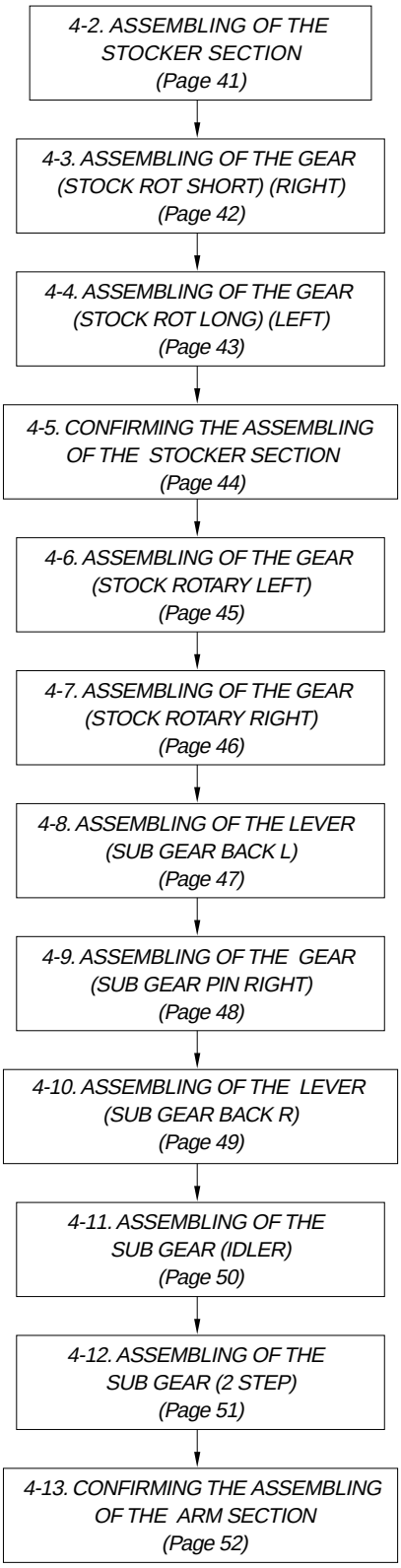
PRECAUTION DURING LEVER INSTALLATION


❷ Hold the both ends of the SPSR-P (lock) with two claws.
❸ lever (lock)
❶ SPR-P (lock)
❹ Pick up the SPR-P (lock) from the claw and hook it on the lever.

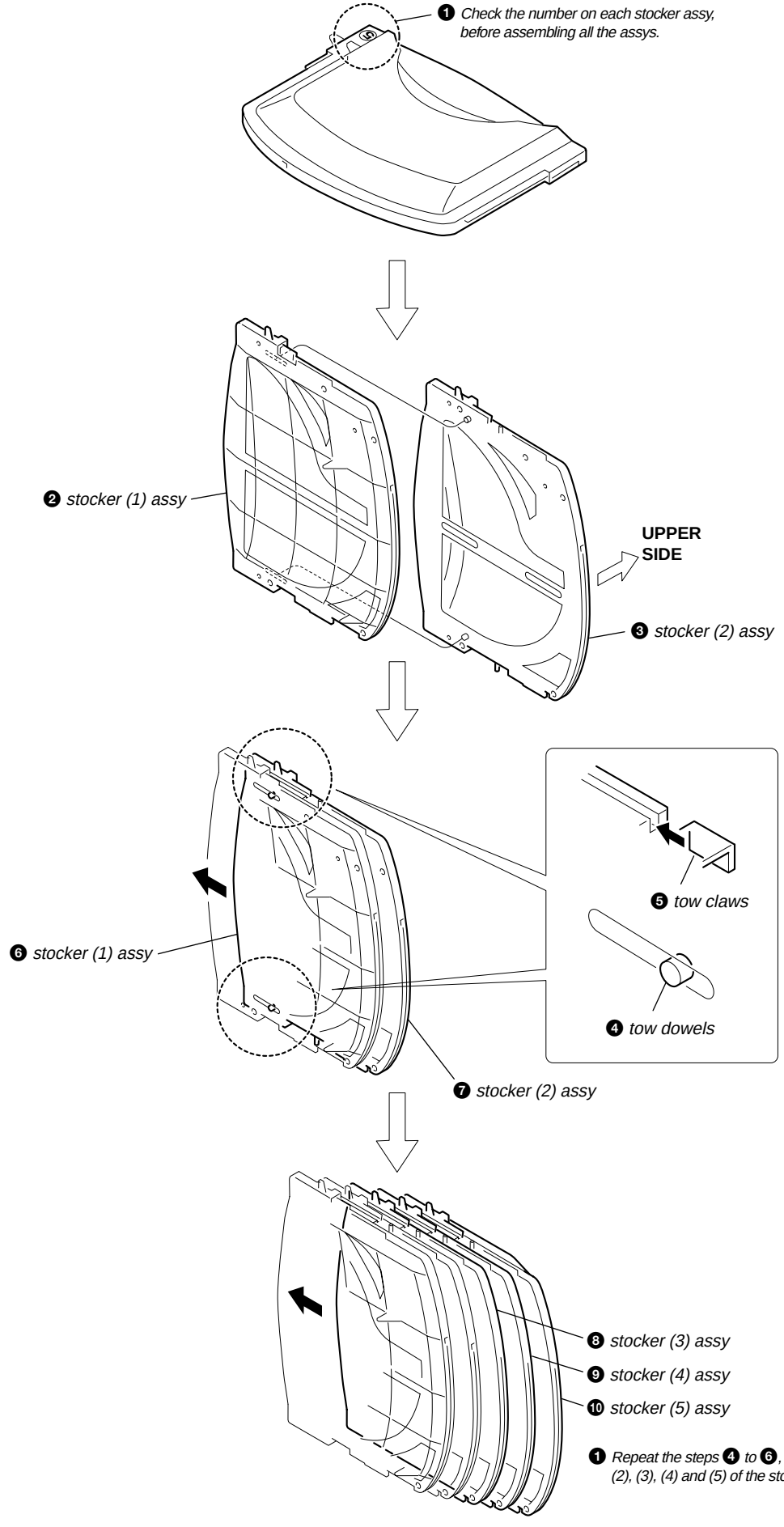
SECTION 4
ASSEMBLY

• This is can be assemble according to the following sequence.

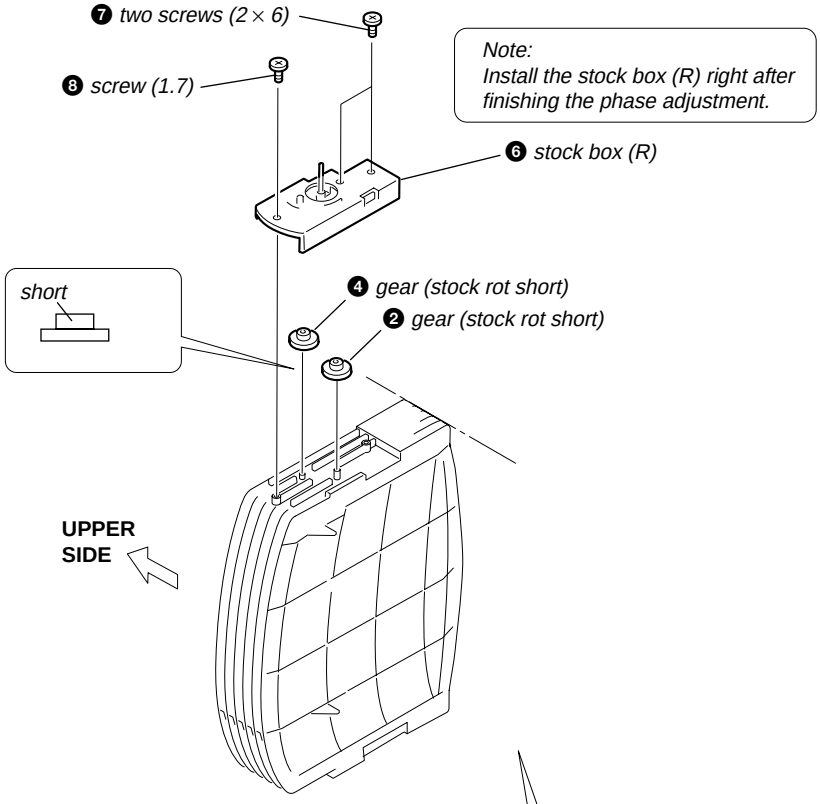
4-1. ASSEMBLY FLOW


4-2. ASSEMBLING OF THE STOCKER SECTION (Page 41)
4-3. ASSEMBLING OF THE GEAR (STOCK ROT SHORT) (RIGHT) (Page 42)
4-4. ASSEMBLING OF THE GEAR (STOCK ROT LONG) (LEFT) (Page 43)
4-5. CONFIRMING THE ASSEMBLING OF THE STOCKER SECTION (Page 44)
4-6. ASSEMBLING OF THE GEAR (STOCK ROTARY LEFT) (Page 45)
4-7. ASSEMBLING OF THE GEAR (STOCK ROTARY RIGHT) (Page 46)
4-8. ASSEMBLING OF THE LEVER (SUB GEAR BACK L) (Page 47)
4-9. ASSEMBLING OF THE GEAR (SUB GEAR PIN RIGHT) (Page 48)
4-10. ASSEMBLING OF THE LEVER (SUB GEAR BACK R) (Page 49)
4-11. ASSEMBLING OF THE SUB GEAR (IDLER) (Page 50)
4-12. ASSEMBLING OF THE SUB GEAR (2 STEP) (Page 51)
4-13. CONFIRMING THE ASSEMBLING OF THE ARM SECTION (Page 52)

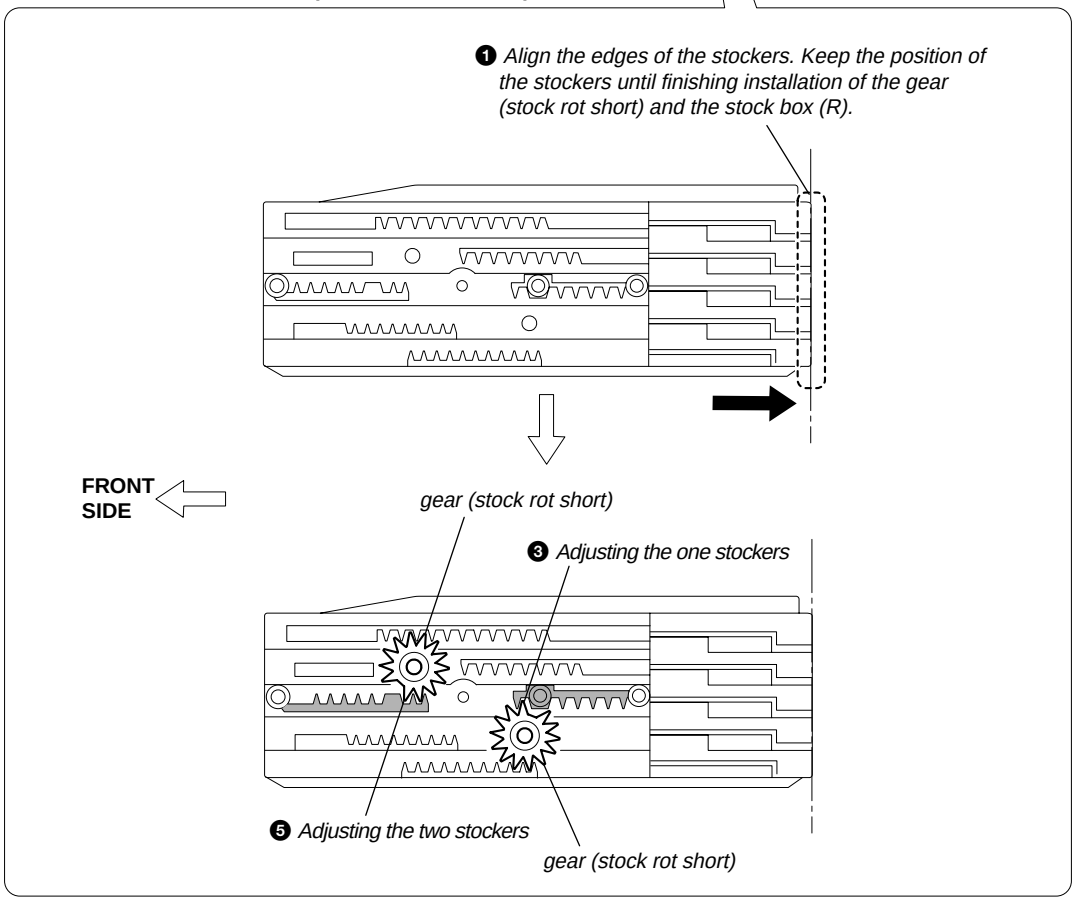
4-2. ASSEMBLING OF THE STOCKER SECTION


❶ Check the number on each stocker assy, before assembling all the assys.
❷ stocker (1) assy
UPPER SIDE
❸ stocker (2) assy
❺ tow claws
❻ stocker (1) assy
❹ tow dowels
❼ stocker (2) assy
❽ stocker (3) assy
❾ stocker (4) assy
❿ stocker (5) assy
❶ Repeat the steps ❹ to ❻, when installing the part (2), (3), (4) and (5) of the stocker assy.

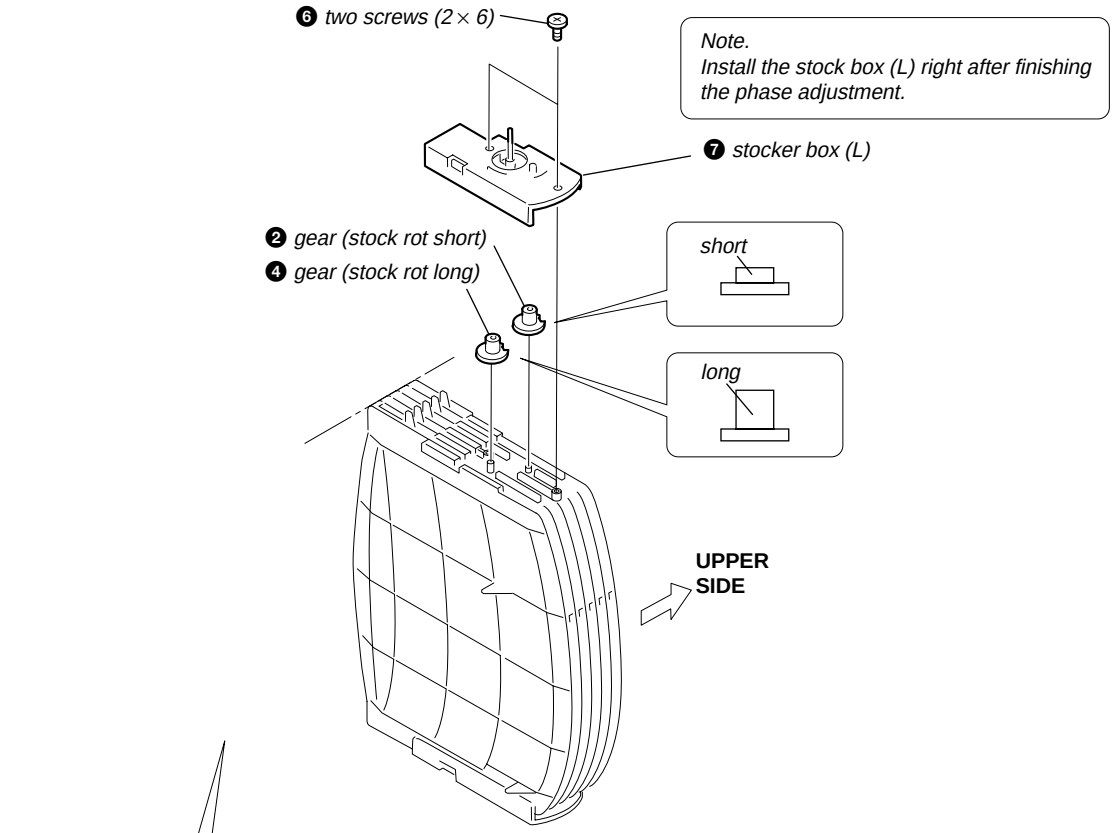
4-3. ASSEMBLING OF THE GEAR (STOCK ROT SHORT) (RIGHT)


❼ two screws (2 × 6)
❽ screw (1.7)
Note:
Install the stock box (R) right after finishing the phase adjustment.
❻ stock box (R)
short
❹ gear (stock rot short)
❷ gear (stock rot short)
UPPER SIDE

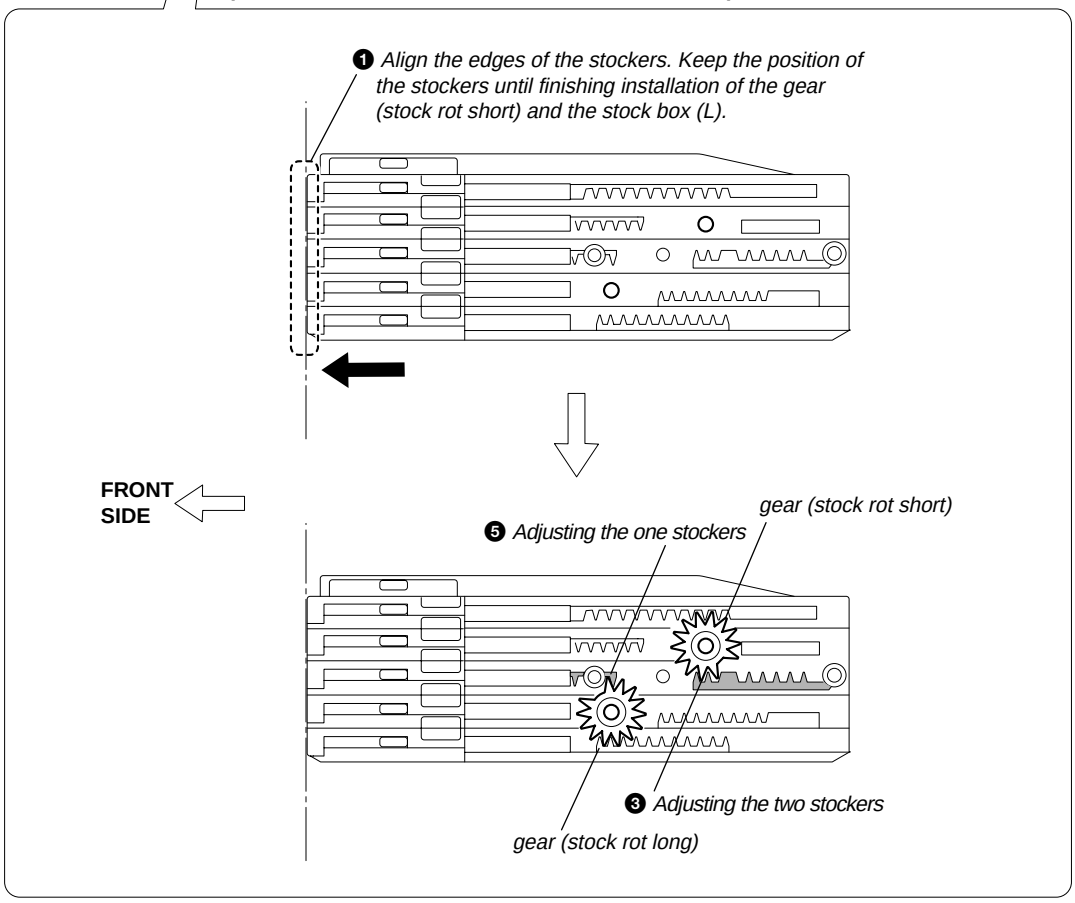
PRECAUTION DURING GEAR (STOCK ROT SHORT) INSTALLATION


❶ Align the edges of the stockers. Keep the position of the stockers until finishing installation of the gear (stock rot short) and the stock box (R).
FRONT SIDE
gear (stock rot short)
❸ Adjusting the one stockers
❺ Adjusting the two stockers
gear (stock rot short)

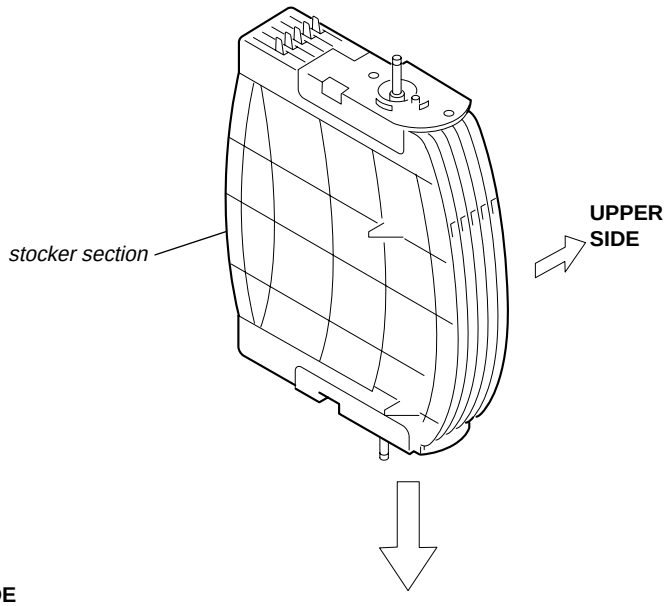
4-4. ASSEMBLING OF THE GEAR (STOCK ROT LONG) (LEFT)



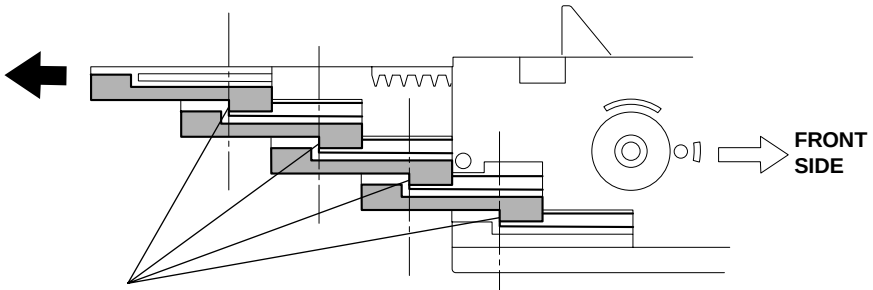
PRECAUTION DURING GEAR (STOCK ROT SHORT, STOCK ROT SHORT LONG) INSTALLATION


❶ Align the edges of the stockers. Keep the position of the stockers until finishing installation of the gear (stock rot short) and the stock box (L).
FRONT SIDE
❺ Adjusting the one stockers
gear (stock rot short)
❸ Adjusting the two stockers
gear (stock rot long)

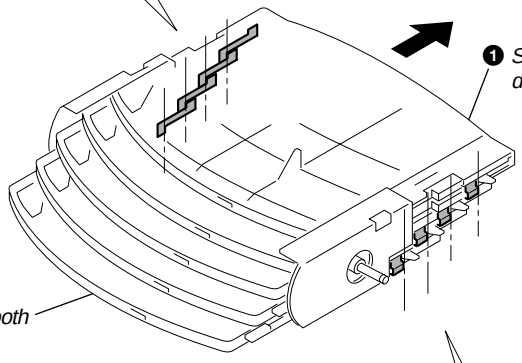
4-5. CONFIRMING THE ASSEMBLING OF THE STOCKER SECTION



STOCKER ASSY (R) SIDE



❸ *Confirm that each claw contacts uniformly at the respective stop positions of the stocker assy (1) to the stocker assy (5).*

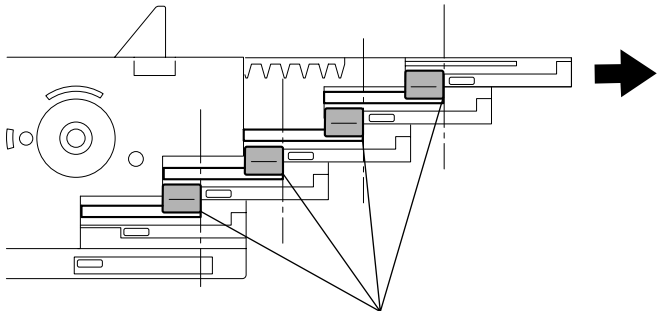


❶ *Slide the stocker assy in the direction of the arrow.*

UPPER SIDE

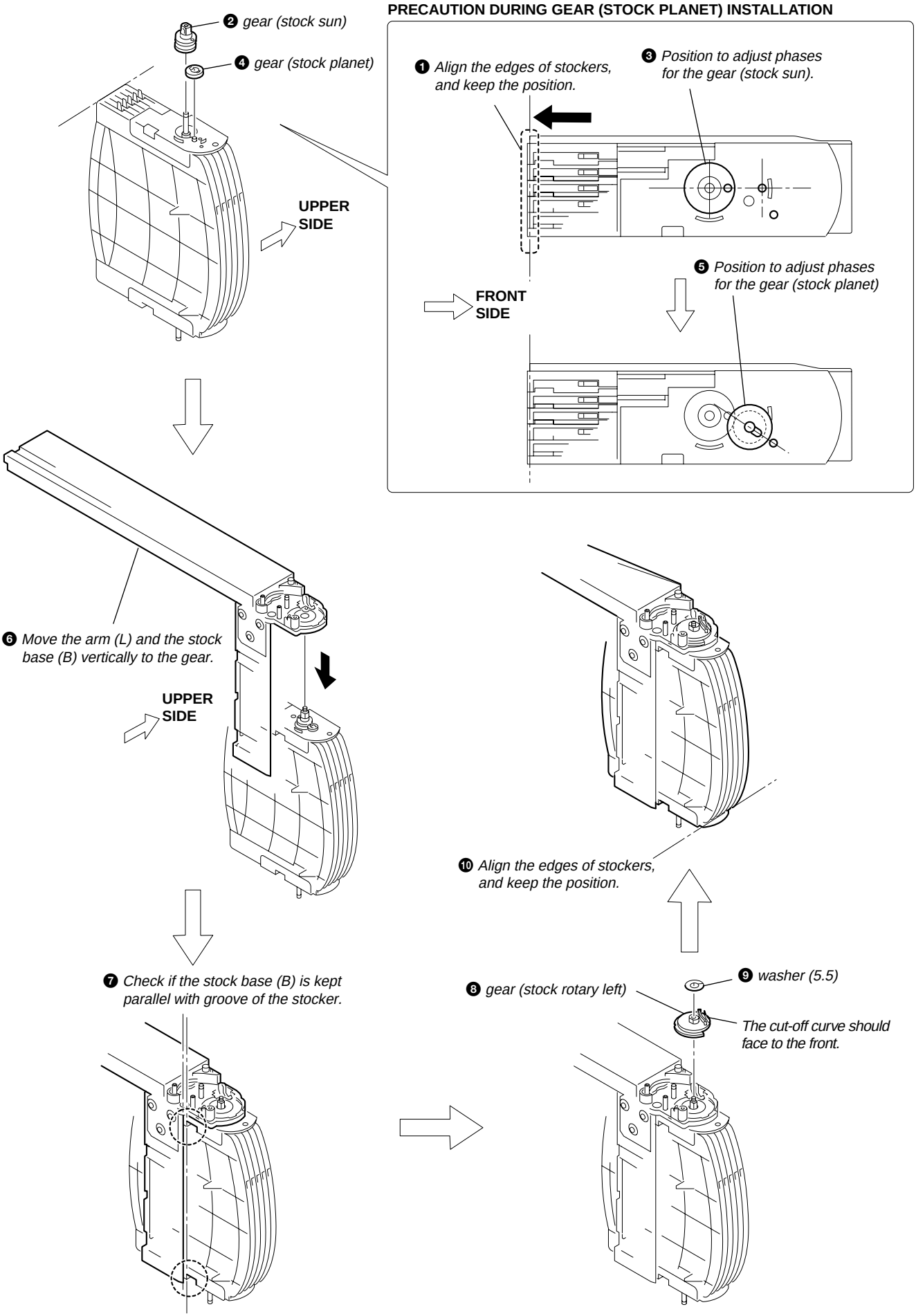
❹ *Confirm the stocker assys move smooth by sliding the stocker assys (1) to (5)*

STOCKER ASSY (L) SIDE

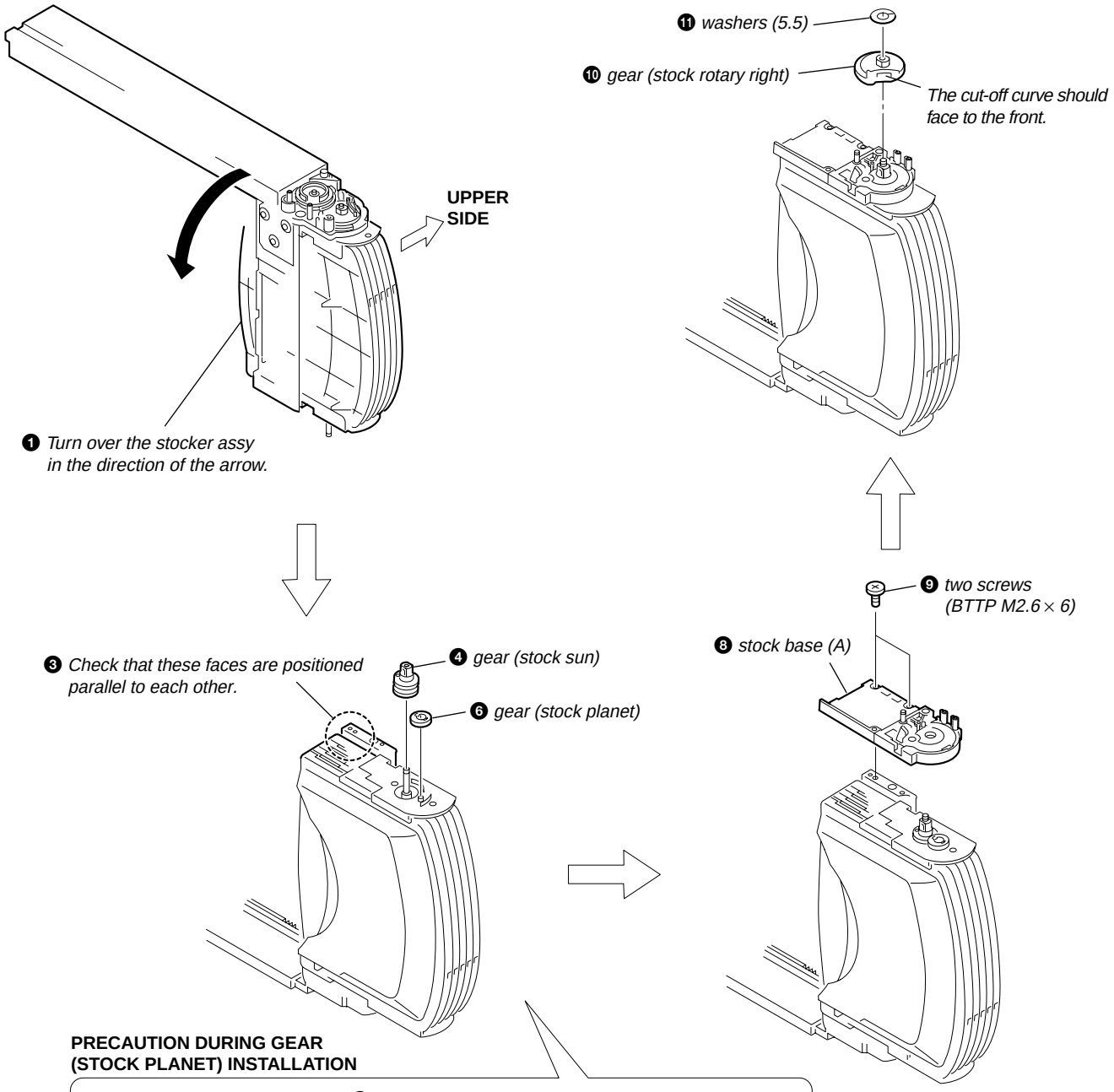


❷ *Confirm that each claw contacts uniformly at the respective stop positions of the stocker assy (1) to the stocker assy (5).*

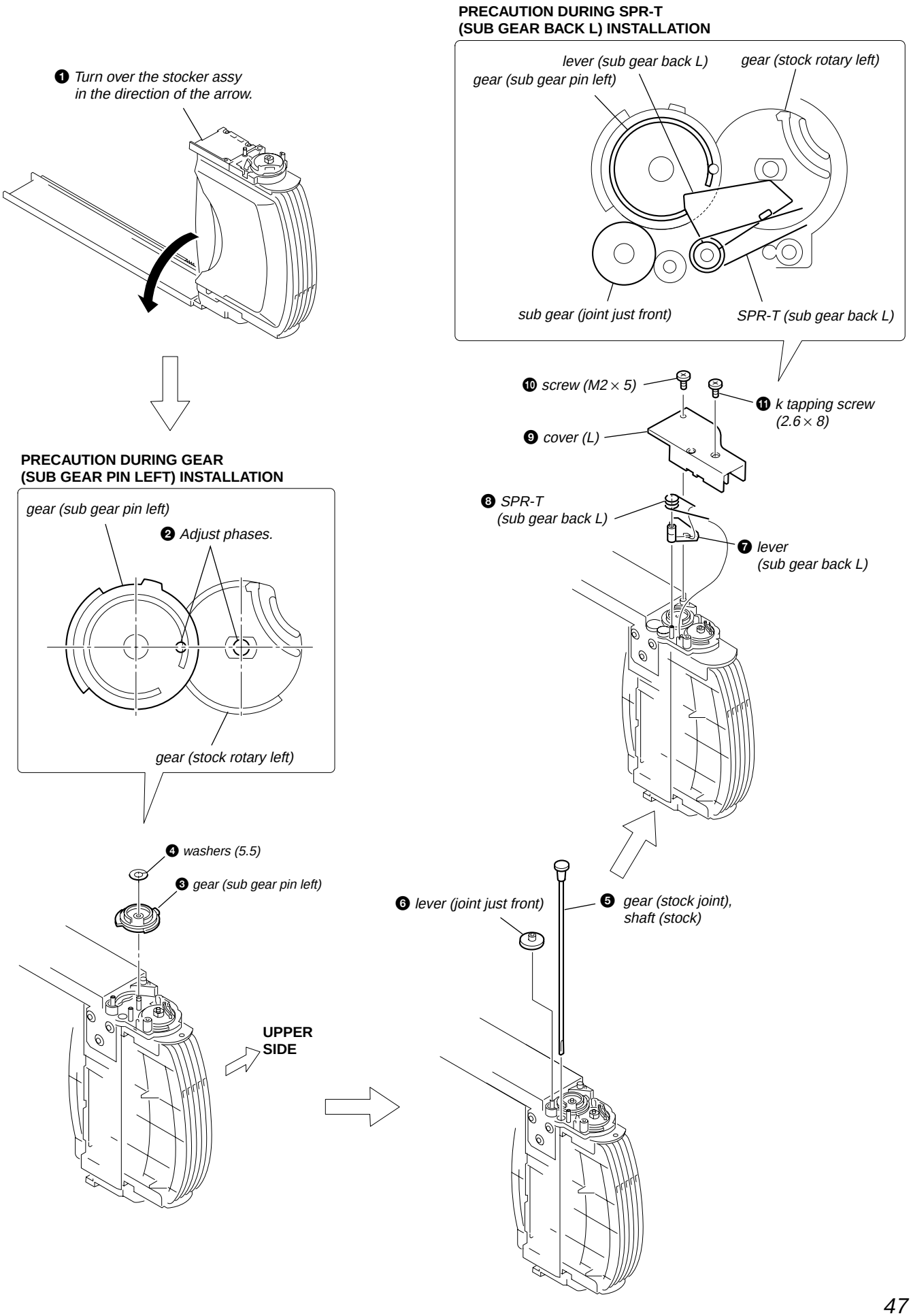
4-6. ASSEMBLING OF THE GEAR (STOCK ROTARY LEFT)


❷ gear (stock sun)
❹ gear (stock planet)
UPPER SIDE
PRECAUTION DURING GEAR (STOCK PLANET) INSTALLATION
❶ Align the edges of stockers, and keep the position.
❸ Position to adjust phases for the gear (stock sun).
FRONT SIDE
❺ Position to adjust phases for the gear (stock planet)
❻ Move the arm (L) and the stock base (B) vertically to the gear.
UPPER SIDE
❼ Check if the stock base (B) is kept parallel with groove of the stocker.
❿ Align the edges of stockers, and keep the position.
❽ gear (stock rotary left)
❾ washer (5.5)
The cut-off curve should face to the front.

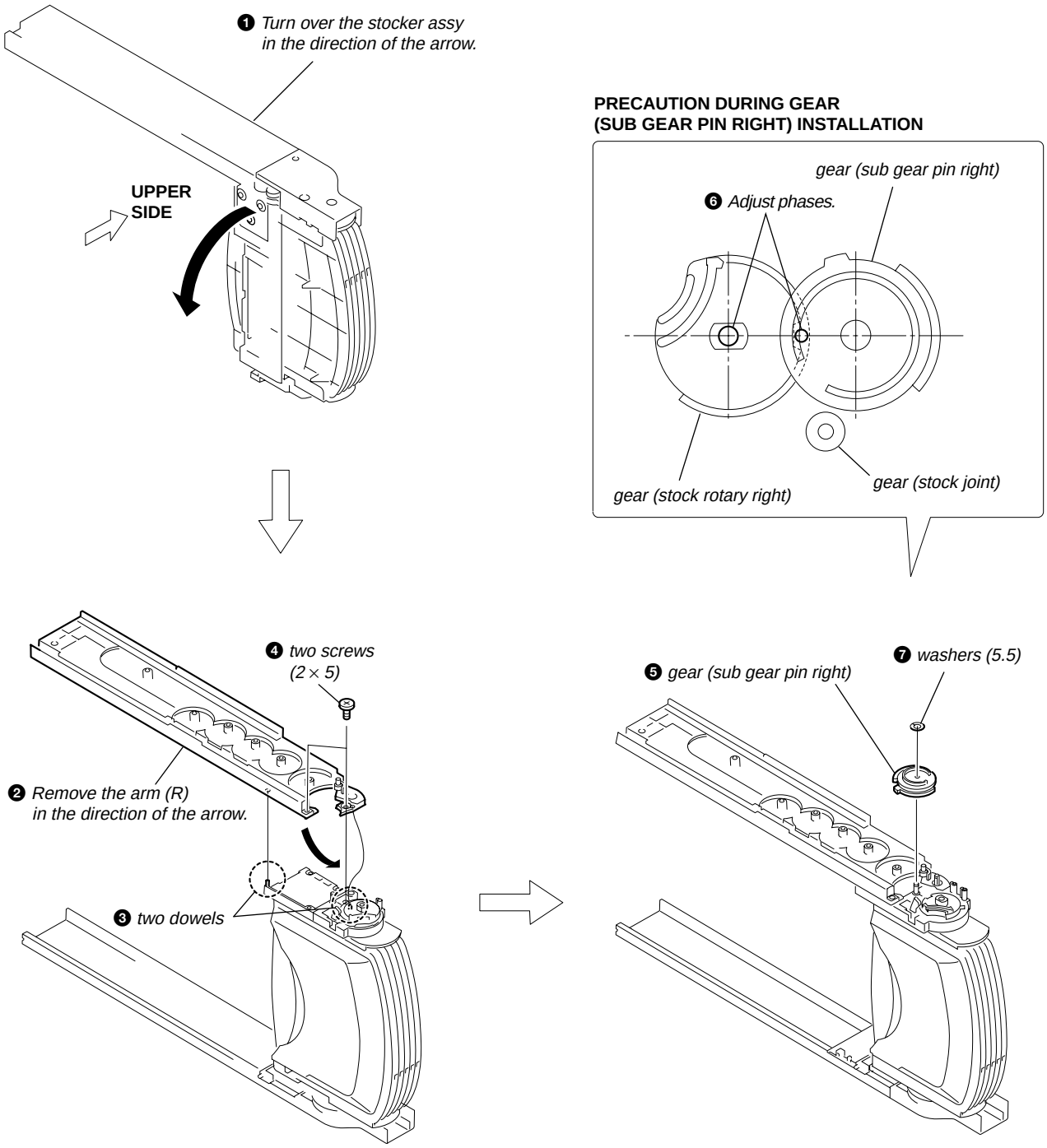
4-7. ASSEMBLING OF THE GEAR (STOCK ROTARY RIGHT)


❶ Turn over the stocker assy in the direction of the arrow.
UPPER SIDE
❸ Check that these faces are positioned parallel to each other.
❹ gear (stock sun)
❻ gear (stock planet)
❽ stock base (A)
❾ two screws (BTTP M2.6 × 6)
❿ gear (stock rotary right)
⓫ washers (5.5)
The cut-off curve should face to the front.
PRECAUTION DURING GEAR (STOCK PLANET) INSTALLATION
❺ Position to adjust phases for the gear (stock sun).
❷ Keep the position of the edges of the stockers and adjust phases.
❼ Position to adjust phases for the gear (stock planet).
FRONT SIDE

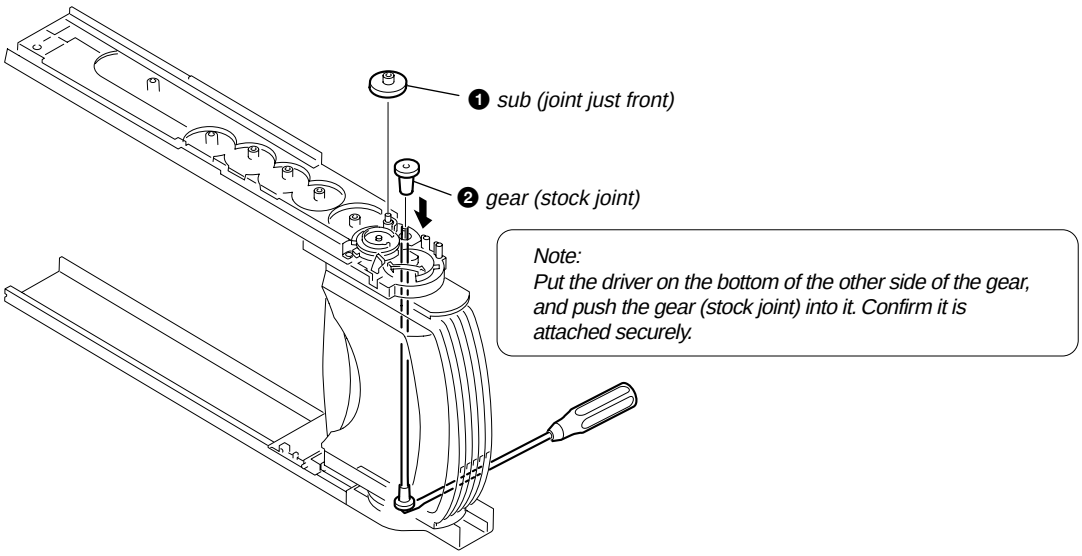
4-8. ASSEMBLING OF THE LEVER (SUB GEAR BACK L)

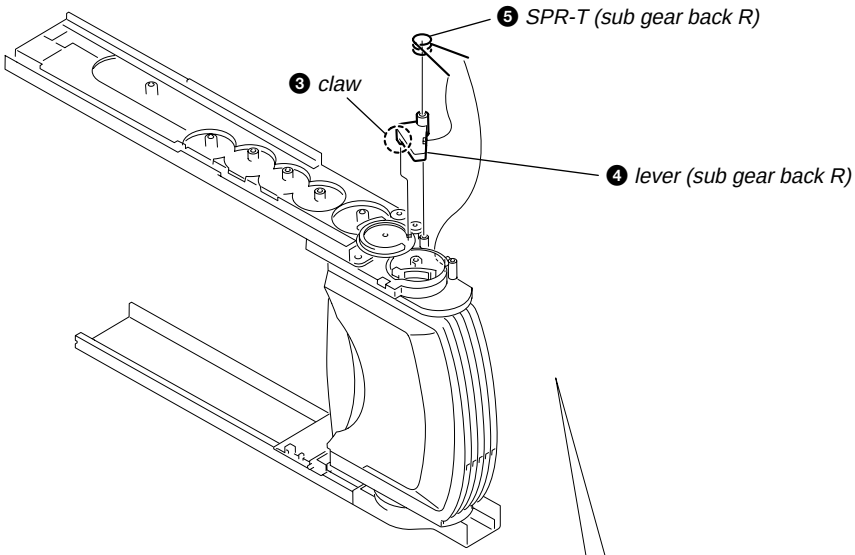


4-9. ASSEMBLING OF THE GEAR (SUB GEAR PIN RIGHT)

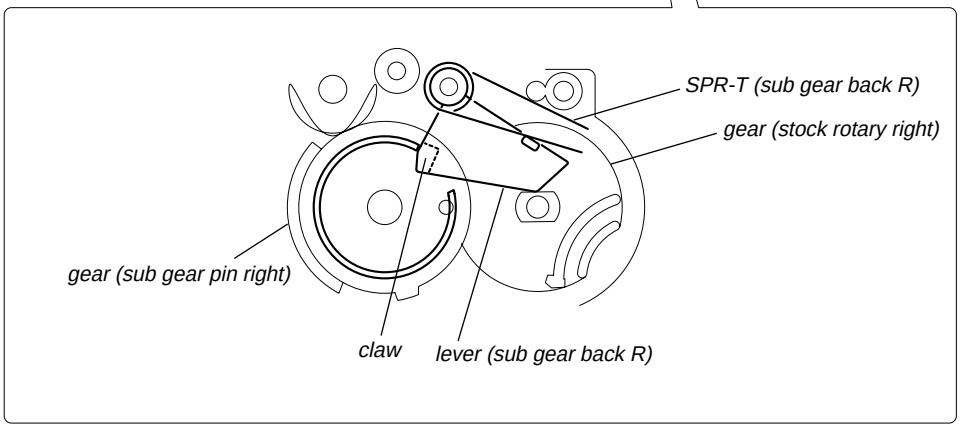

❶ Turn over the stocker assy in the direction of the arrow.
UPPER SIDE
PRECAUTION DURING GEAR (SUB GEAR PIN RIGHT) INSTALLATION
gear (sub gear pin right)
❻ Adjust phases.
gear (stock rotary right)
gear (stock joint)
❹ two screws (2 × 5)
❷ Remove the arm (R) in the direction of the arrow.
❸ two dowels
❺ gear (sub gear pin right)
❼ washers (5.5)

4-10. ASSEMBLING OF THE LEVER (SUB GEAR BACK R)

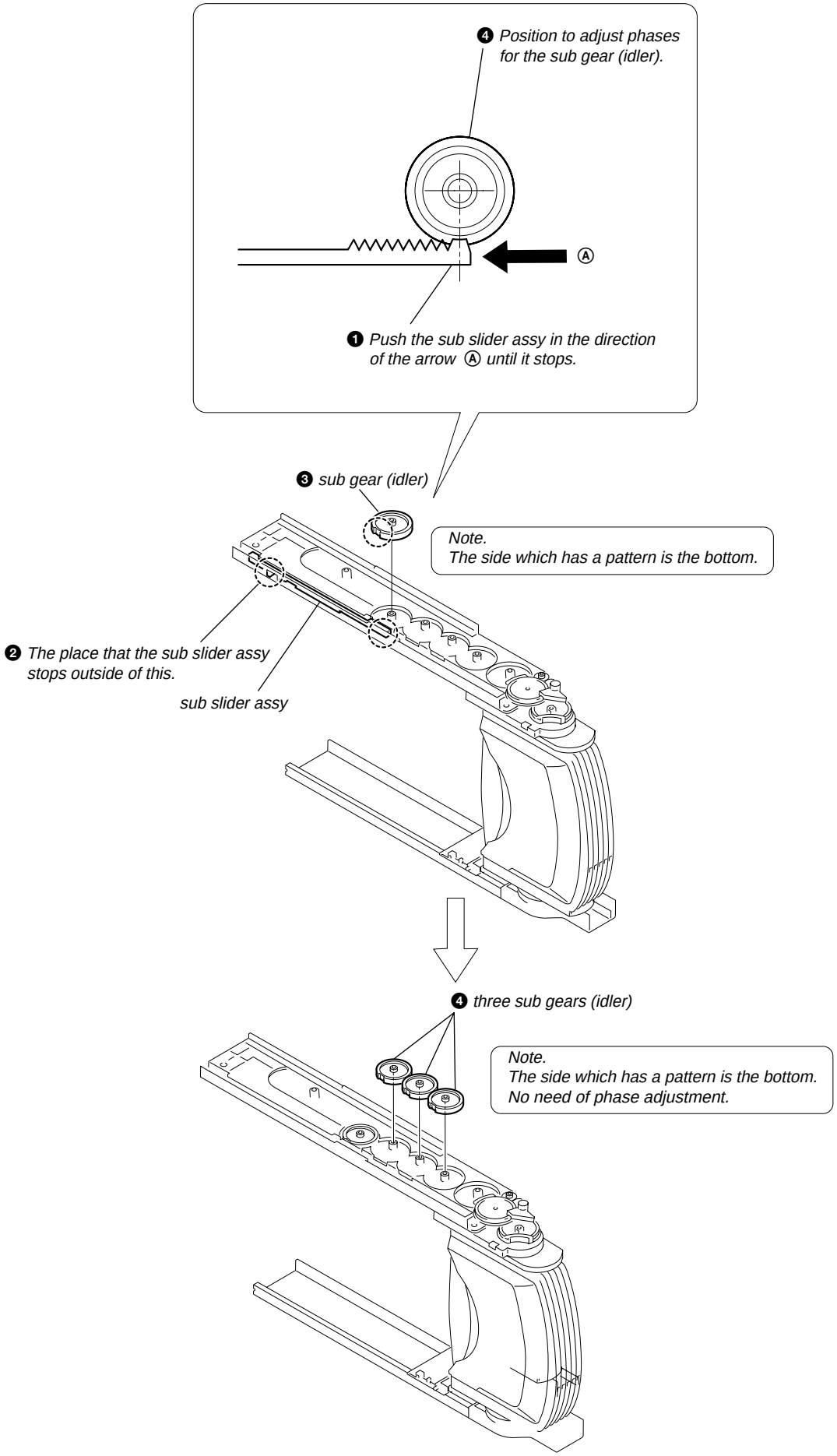

❶ sub (joint just front)
❷ gear (stock joint)
Note:
Put the driver on the bottom of the other side of the gear, and push the gear (stock joint) into it. Confirm it is attached securely.



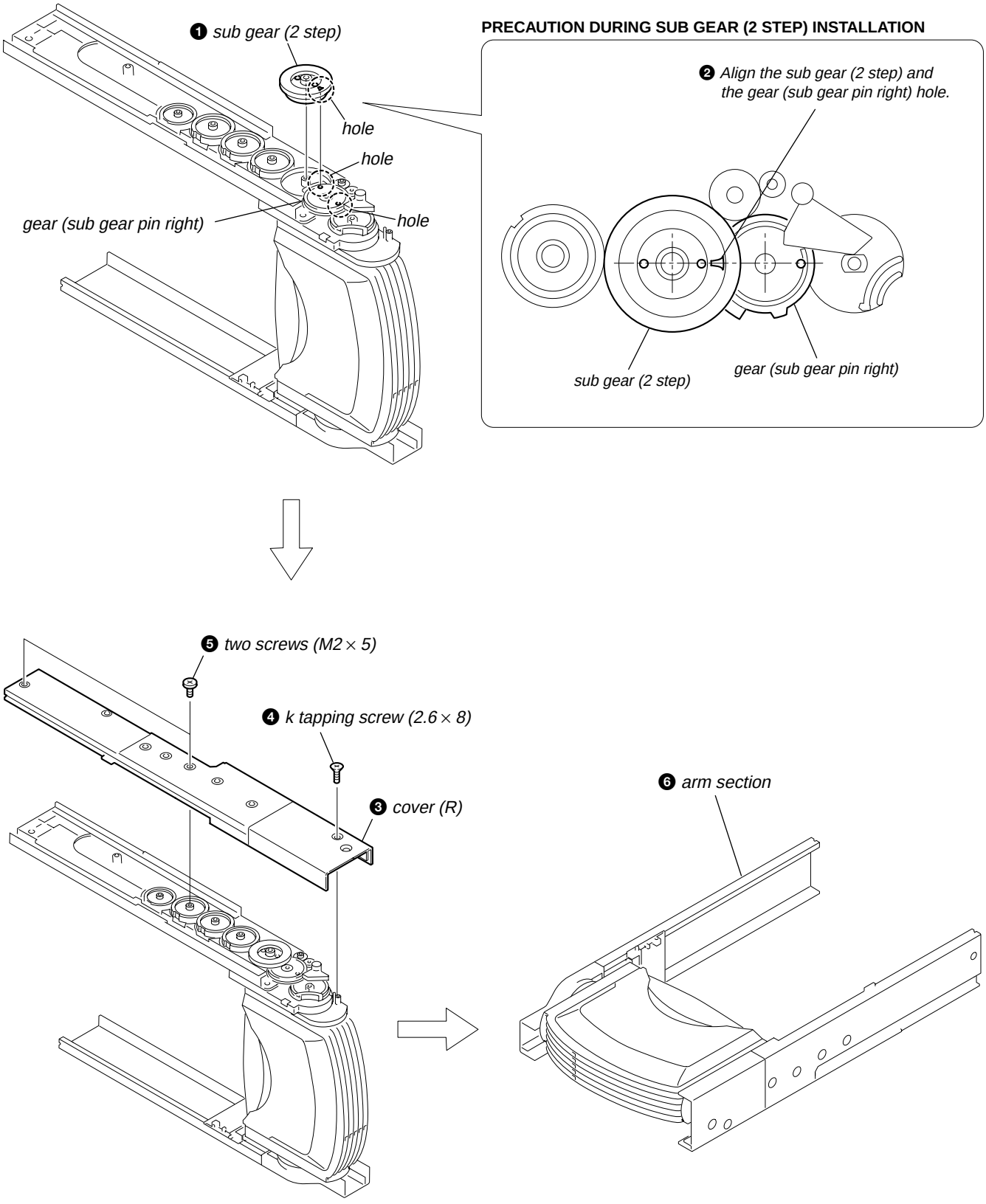
PRECAUTION DURING SPR-T (SUB GEAR BACK R) INSTALLATION



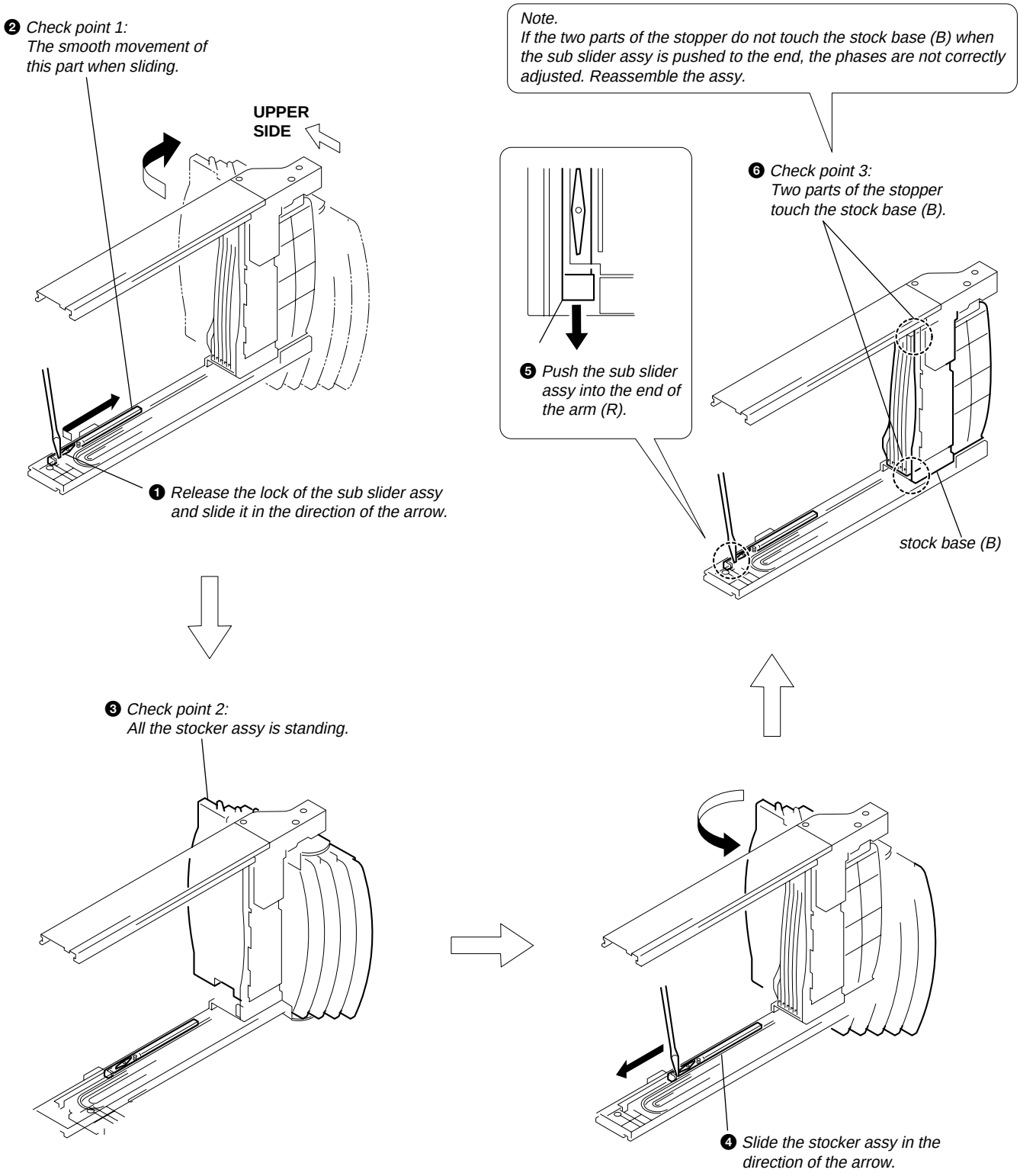
4-11. ASSEMBLING OF THE SUB GEAR (IDLER)


❹ Position to adjust phases for the sub gear (idler).
Ⓐ
❶ Push the sub slider assy in the direction of the arrow Ⓐ until it stops.
❸ sub gear (idler)
Note.
The side which has a pattern is the bottom.
❷ The place that the sub slider assy stops outside of this.
sub slider assy
❹ three sub gears (idler)
Note.
The side which has a pattern is the bottom.
No need of phase adjustment.

4-12. ASSEMBLING OF THE SUB GEAR (2 STEP)


❶ sub gear (2 step)
hole
hole
gear (sub gear pin right)
hole
PRECAUTION DURING SUB GEAR (2 STEP) INSTALLATION
❷ Align the sub gear (2 step) and the gear (sub gear pin right) hole.
sub gear (2 step)
gear (sub gear pin right)
❺ two screws (M2 × 5)
❹ k tapping screw (2.6 × 8)
❸ cover (R)
❻ arm section

4-13. CONFIRMING THE ASSEMBLING OF THE ARM SECTION


❷ Check point 1:
The smooth movement of this part when sliding.
UPPER SIDE
❶ Release the lock of the sub slider assy and slide it in the direction of the arrow.
❸ Check point 2:
All the stocker assy is standing.
❹ Slide the stocker assy in the direction of the arrow.
Note.
If the two parts of the stopper do not touch the stock base (B) when the sub slider assy is pushed to the end, the phases are not correctly adjusted. Reassemble the assy.
❺ Push the sub slider assy into the end of the arm (R).
❻ Check point 3:
Two parts of the stopper touch the stock base (B).
stock base (B)

SECTION 5
TEST MODE

[MC COLD RESET]

The cold reset clears all data including preset data stored in the memory to initial conditions. Execute this mode when returning the set to the customer.

Procedure:

1. In the standby status, press the I/⏻ button to turn the power on.
2. Press three buttons of I/⏻, ■, and PLAY MODE/TUNING MODE simultaneously.
3. The set is reset, and become standby status.

[COMMON TEST MODE]

Enter The Common Test Mode

Procedure:

1. In the standby status, press the I/⏻ button to turn the power on.
2. Press three buttons of PLAY MODE/TUNING MODE, ■, and DSGX simultaneously.
3. When the common test mode is activated, “SLEEP” and “PLAY” icons are blink and “MD” display on the fluorescent indicator tube.

AMP Test

Procedure:

1. In the common test mode, if turn the VOLUME knob clockwise, it displays “VOL MAX”, and if turn the knob counterclockwise, it displays “VOL MIN”.
   The same operations as described above can also be performed by pressing the VOLUME + and VOLUME – buttons of the remote control.
2. If the EQ button of the remote control is pressed, “TONE MAX” is displayed for several seconds.
   Pressing the EQ button once more displays the “TONE MIN”, and another pressing displays “TONE FLAT".
3. “TONE MAX”, “TONE MIN”, and “TONE FLAT” are displayed repeatedly in this order each time the EQ button is pressed.
4. To release from this mode, press the I/⏻ button to turn the power off.

Tape Test

Procedure:

1. In the common test mode, insert a tape.
2. Input any audio signal from the VIDEO/MD jack (J301) on the MAIN board.
3. Press the ● REC button, and press the ► TAPE button to select the tape direction.
4. Press the ● REC button again to start recording.
5. If press the ⏮◀◀ TUNING– or TUNING+ ▶▶⏭ button, the tape is returned to recording start point by cue or review operation, and starts playback.
6. To release from this mode, press the I/⏻ button to turn the power off.

[PANEL TEST MODE]

Enter The Panel Test Mode

Procedure:

1. In the standby status, press the I/⏻ button to turn the power on.
2. Press three buttons of REPEAT/FM MODE, ■, and DSGX simultaneously.
3. When the panel test mode is activated, LEDs and segments of fluorescent indicator tube are all turned on.

Version Check

Procedure:

1. In the panel test mode (all LEDs and segments of fluorescent indicator tube are turned on), press the REPEAT/FM MODE button.
2. Destination indication and model type indication are displayed on the fluorescent indicator tube alternately.
3. From this status, each time the TUNING MODE button is pressed, it changes the version display of module as follows.
4. To date of module, press the DSGX or FUNCTION button.
5. To release from this mode, press three buttons of REPEAT/FM MODE, ■, and DSGX simultaneously.

Key Check

Procedure:

1. In the panel test mode (all LEDs and segments of fluorescent indicator tube are turned on), press the PLAY MODE/TUNING MODE button.
2. It displays “K 0 V0” on the fluorescent indicator tube.
3. Each time a button is pressed, “K” value increases. However, once a button is pressed, it is no longer taken into account.
   All keys are pressed, display becomes “K25”.
4. “V” value increases like 1, 2, 3 ... if turn the VOLUME knob clockwise, or it decreases like 0, 9, 8 ... if turn the knob counterclockwise.
5. To release from this mode, press three buttons of REPEAT/FM MODE, ■, and DSGX simultaneously.

[CD REPEAT 5 LIMIT CANCEL MODE]

Number of repeat for CD playback is 5 times when the repeat mode is “REPEAT”. This mode enables CD to repeat playback for limitless times.

Procedure:

1. Press the I/⏻ button to turn the power on.
2. Press the FUNCTION button to select CD function.
3. Press three buttons of TUNING+ ▶▶⏭, PLAY MODE/TUNING MODE, and DSGX simultaneously.
4. It enters the CD repeat 5 limit cancel mode and display “LIMIT OFF”
5. To release this mode, press the I/⏻ button to turn the power off.

[CD SHIP MODE]

This mode can run the CD sled motor optionally. Use this mode, for instance, when cleaning the optical pick-up.

Procedure:

1. Press the I/⏻ button to turn the power on.
2. Press the FUNCTION button to select CD function.
3. Press three buttons of EX-CHANGE and I/⏻ simultaneously. *1
4. Set to the CD ship mode. (chucking on)
5. After blink “STANDBY”, “LOCK” is displayed, disconnect the AC plug.

*1) If press three buttons of DISC SKIP, EX-CHANGE and PLAY MODE/TUNING MODE simultaneously, Activate the CD ship mode and MC cold reset.

[CD SLOT LOCK]

This mode is for the antitheft of CD disc in shop. (not for transport)

Procedure:

1. Press the I/⏻ button to turn the power on.
2. Press the FUNCTION button to select CD function.
3. Insert a disc.
4. While pressing the ■ button, press the ⏏ (CD) button for more 5 seconds.
5. The message “LOCKED” is displayed and the disc slot is locked. (Even if exiting from this mode, the disc slot is still locked)
6. If press the ⏏ (CD) button to eject the disc, the message “LOCKED” is displayed and can not eject the disc.
7. To release this lock, while pressing the ■ button, press the ⏏ (CD) button for 5 seconds again.
8. The message “UNLOCKED” is displayed and the disc slot is unlocked.

[CD POWER MANAGE]

This mode is for switch the CD power supply on/off. Even if this state pulls out AC plug, it is held.

Procedure:

1. Press the I/⏻ button to turn the power on.
2. Press the FUNCTION button to select CD function.
3. Press the I/⏻ button again to turn the power off (standby).
4. While pressing the ■ button, press the I/⏻ button.
5. It turns power on and display “CD POWER”, then display “ON” or “OFF”.

[CHANGE-OVER THE AM TUNING INTERVAL] (except AEP, UK models)

The AM tuning interval can be changed over 9 kHz or 10 kHz.

Procedure:

1. Press the I/⏻ button to turn the power on.
2. Press the TUNER/BAND button to select TUNER (AM) function.
3. Press the I/⏻ button again to turn the power off (standby).
4. While pressing the TUNING+ ▶▶▷▷| button, press the I/⏻ button.
5. It turns power on and display “STEP 9kHz” or “STEP 10kHz”, and thus the tuning interval is changed over.

[MD/VIDEO FUNCTION CHANGE]

Select either VIDEO or MD of the external input.

Procedure:

1. Press the I/⏻ button to turn the power on.
2. Press the FUNCTION button to select MD or VIDEO function.
3. Press the I/⏻ button again to turn the power off (standby).
4. While pressing the FUNCTION button, press the I/⏻ button.
5. The another function of the previous function is selected and display “MD” or “VIDEO”.

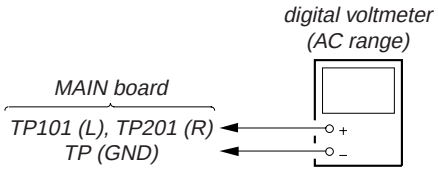
SECTION 6
ELECTICAL ADJUSTMENTS

DECK SECTION

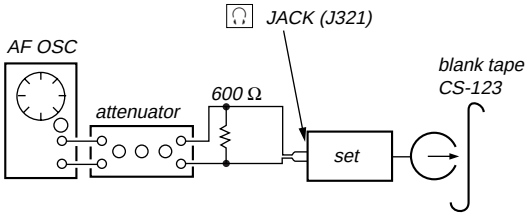
1. Demagnetize the record/playback head with a head demagnetizer.
2. Do not use a magnetized screwdriver for the adjustments.
3. After the adjustments, apply suitable locking compound to the parts adjust.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
5. The adjustments should be performed for both L-CH and R-CH.
6. Switches and controls should be set as follows unless otherwise specified.

REC BIAS ADJUSTMENT

Setting:



Mode: REC

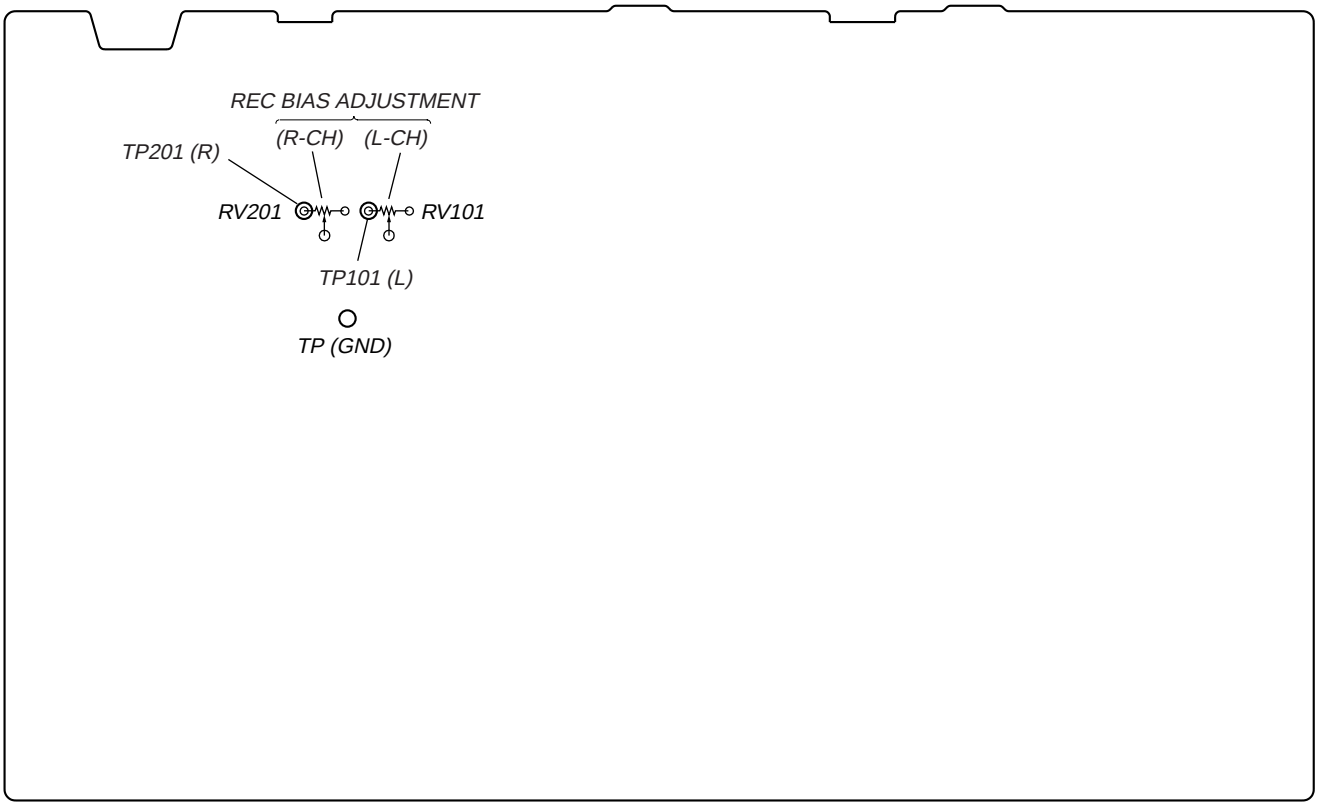


Procedure:

1. Connect a digital voltmeter (AC range) to TP101 (L), TP201 (R) and TP (GND) on the MAIN board.
2. Insert a blank tape (CS-123).
3. Press the I/⏻ button to turn the power on, and press the FUNCTION button to select TAPE function.
4. Press the ● REC button twice to start recording.
5. Adjust RV101 (L-ch), RV201 (R-ch) on the MAIN board so that the digital voltmeter reads AC 6.15 V.
6. Connect an oscilloscope or frequency counter to TP101 (L), TP201 (R) and TP (GND) on the MAIN board.
7. Confirm that the frequency is 82 kHz ±3 kHz.

Adjustment Location:

– MAIN BOARD (Conductor Side) –

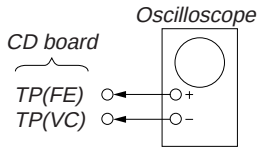


CD SECTION

Note:

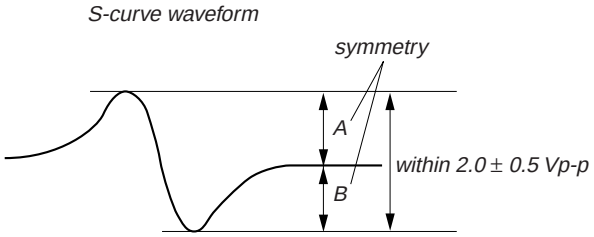
1. CD Block is basically designed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 (3-702-101-01) unless otherwise indicated.
3. Use an oscilloscope with more than 10MΩ impedance.
4. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

S-CURVE CHECK



Procedure :

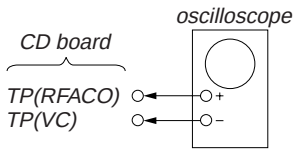
1. Connect an oscilloscope to TP (FE) and TP (VC) on the CD board.
2. Press the I/⏻ button to turn the power ON.
3. Load a disc (YEDS-18) and actuate the focus search. (In consequence of open and close the disc tray, actuate the focus search)
4. Confirm that the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within 2.0 ± 0.5 Vp-p.



Note:
- Try to measure several times to make sure than the ratio of A : B or B : A is more than 10 : 7.
- Take sweep time as long as possible and light up the brightness to obtain best waveform.

Connecting Location: CD board

RFAC LEVEL CHECK

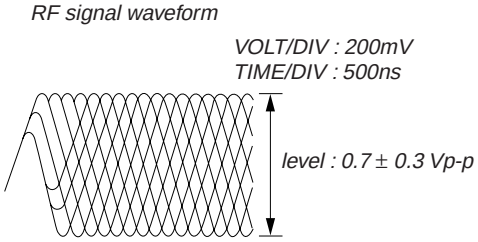


Procedure :

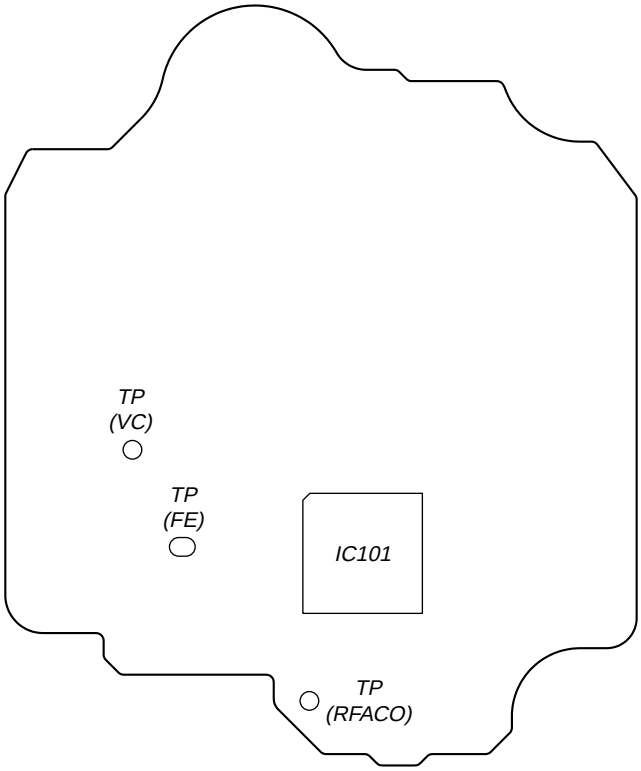
1. Connect an oscilloscope to TP (RFACO) and TP (VC) on the CD board.
2. Press the I/⏻ button to turn the power ON.
3. Load a disc (YEDS-18) and playback.
4. Confirm that oscilloscope waveform is clear and check if RFAC signal level is correct or not.

Note: Clear RFAC signal waveform means that the shape "◊" can be clearly distinguished at the center of the waveform.

Connecting Location: CD board

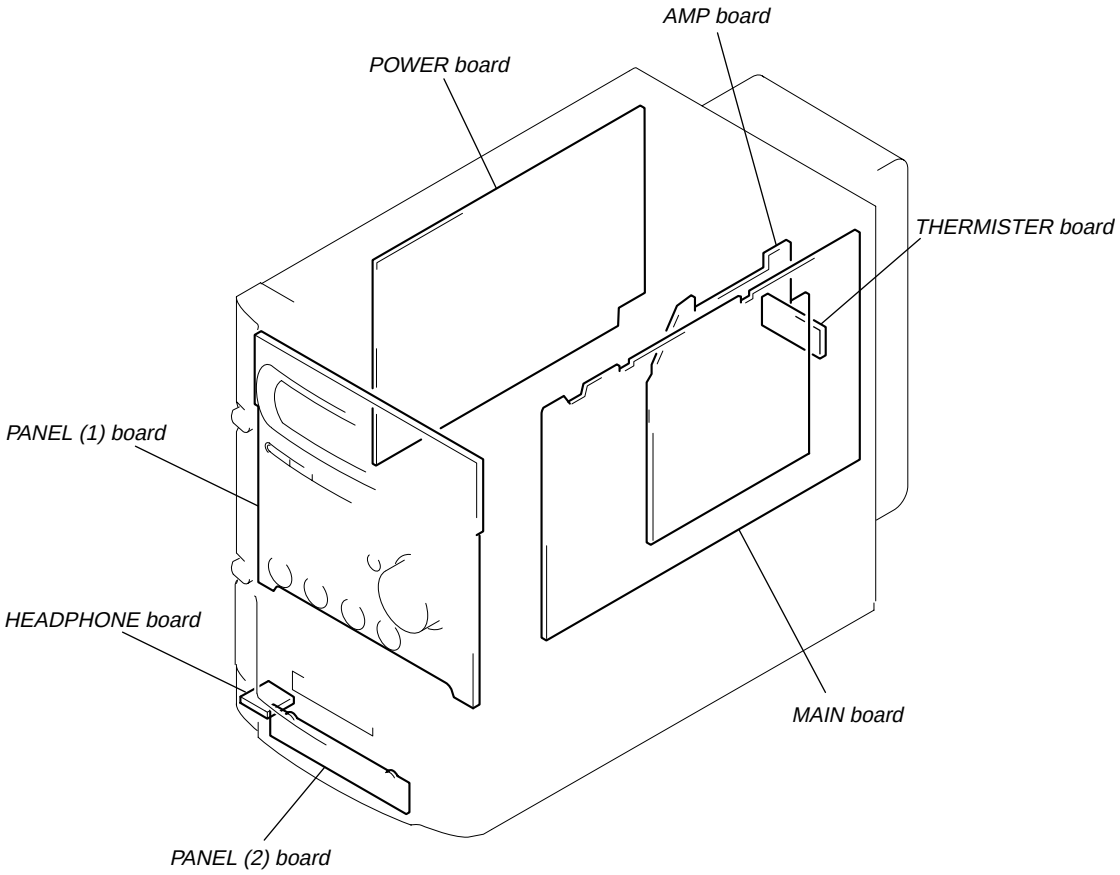


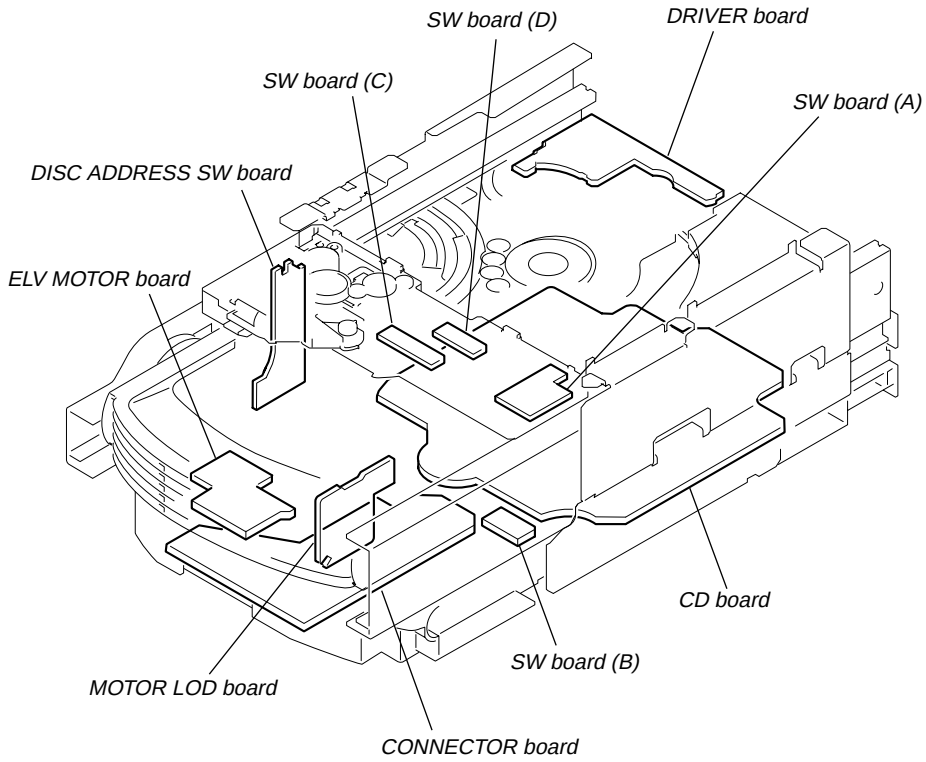
– CD BOARD (Conductor Side) –



SECTION 7
DIAGRAMS

- **Circuit Boards Location**





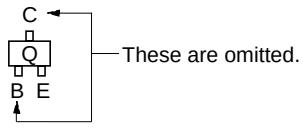
NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

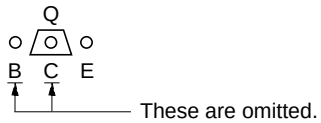
Note on Printed Wiring Boards:

- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- : indicates side identified with part number.
- △ : internal component.
- : Pattern from the side which enables seeing.
  (The other layers' patterns are not indicated.)

Caution:	
Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

- Indication of transistor.





Note on Schematic Diagram:

- All capacitors are in µF unless otherwise noted. (p: pF) 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

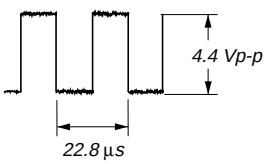
- : B+ Line.
- : B– Line.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  - : TUNER (FM/AM)
  - : TAPE PLAY
  - : TAPE REC
  - : CD PLAY
  - : AUX IN
- Abbreviation

AUS	: Australian model
CND	: Canadian model
E3	: 240 V AC area in E model
KR	: Korean model
MX	: Mexican model
TW	: Taiwan model

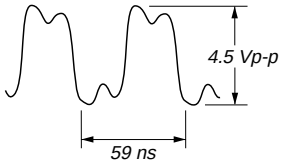
- **Waveforms**

– CD Board –

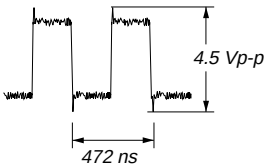
① IC101 ⑥③ (LRCK)



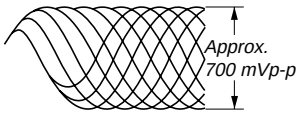
③ IC101 ⑦⑦ (XTAO)



② IC101 ⑥⑥ (BCK)

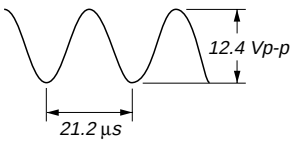


④ IC101 ④① (PFACO)

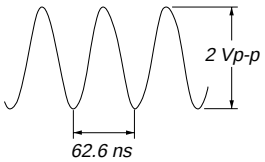


– MAIN Board –

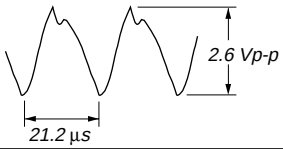
① Q303, 304 (Collector) (REC Mode)



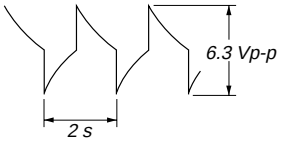
④ IC306 ⑬ (XOUT)



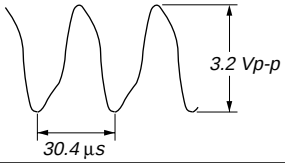
② Q303, 304 (Base) (REC Mode)



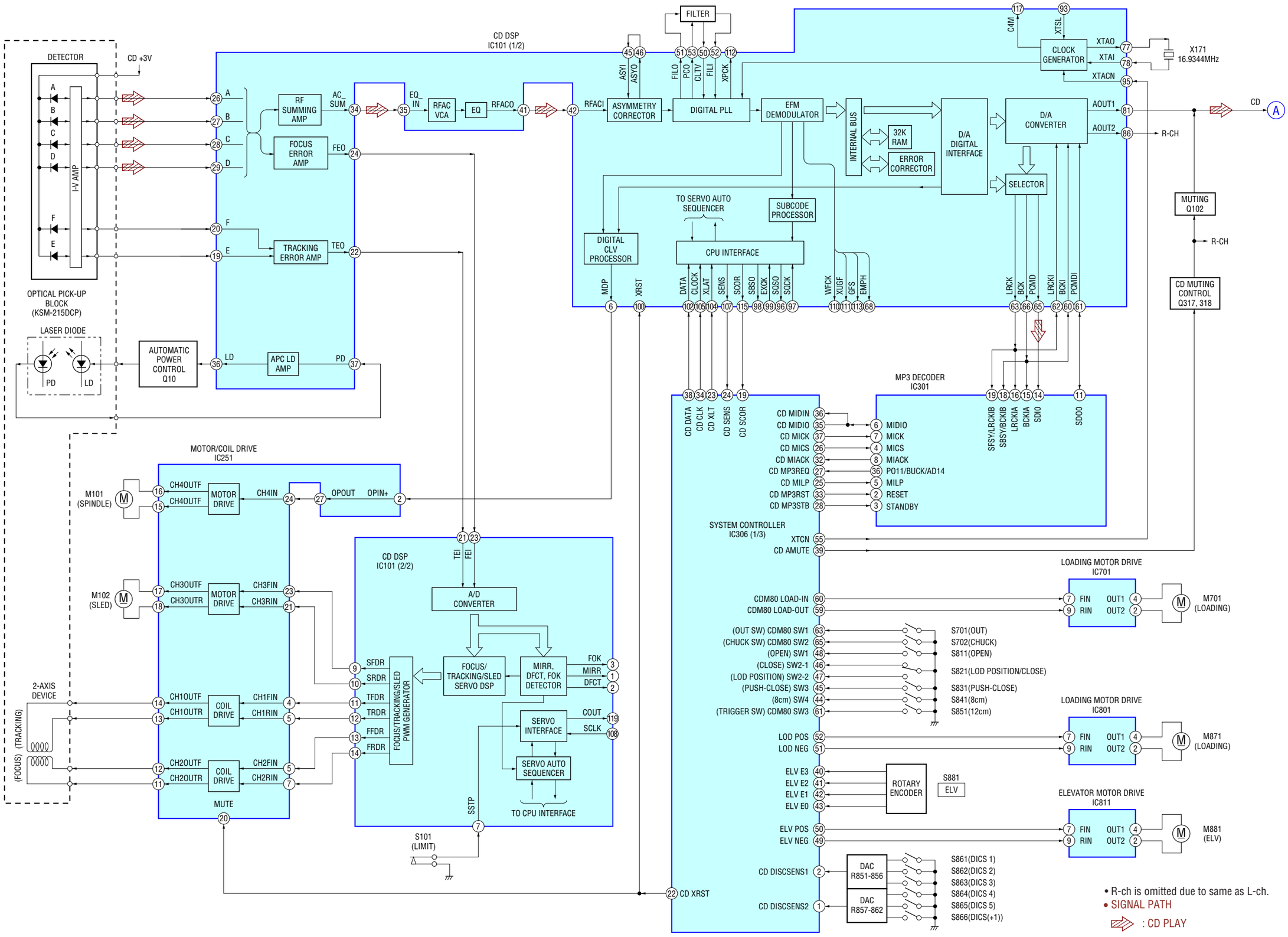
⑤ IC306 ⑨④ (TC END SW) (Tape Play Mode)



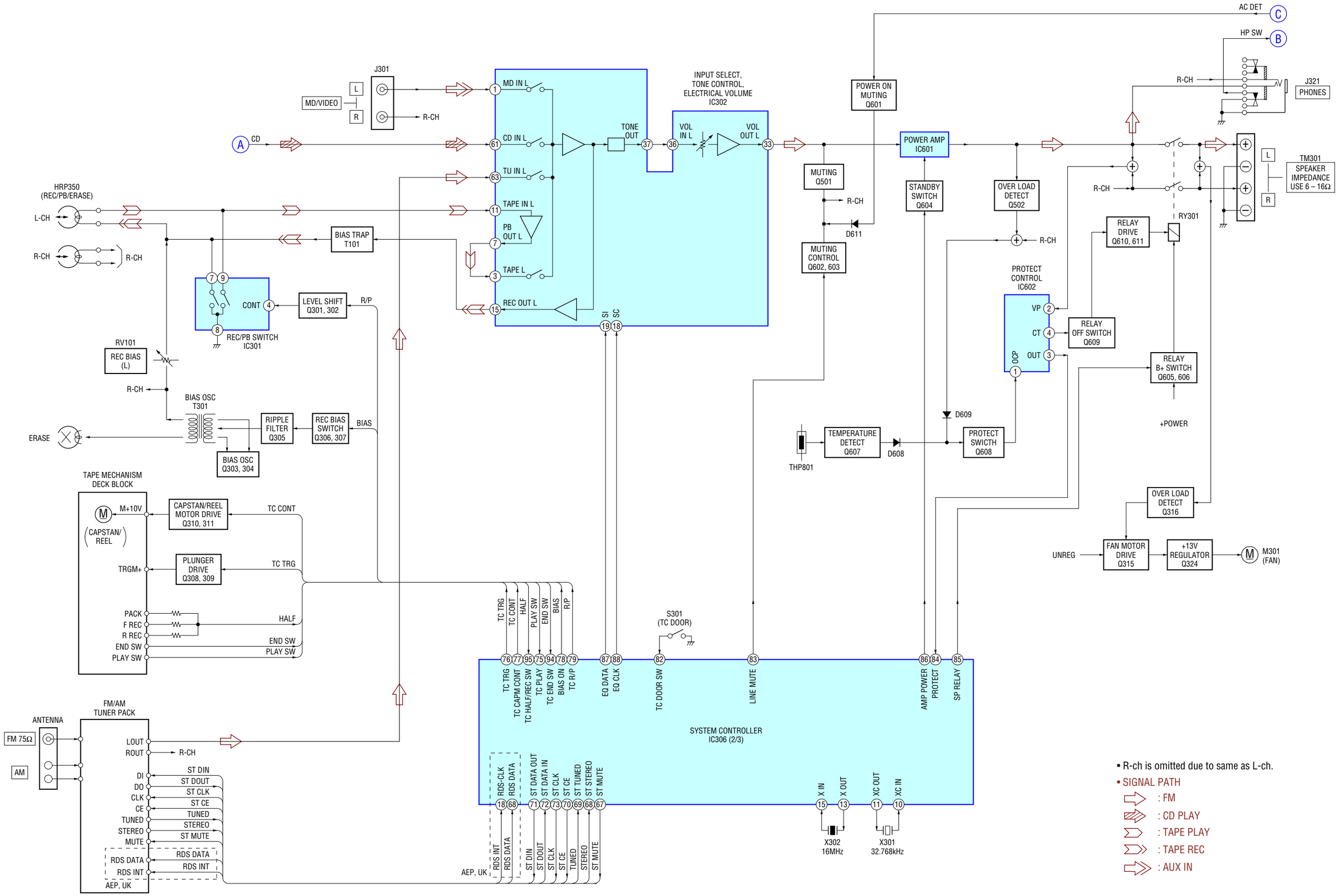
③ IC306 ⑪ (XCOUT)



7-1. BLOCK DIAGRAM — CD SERVO SECTION —

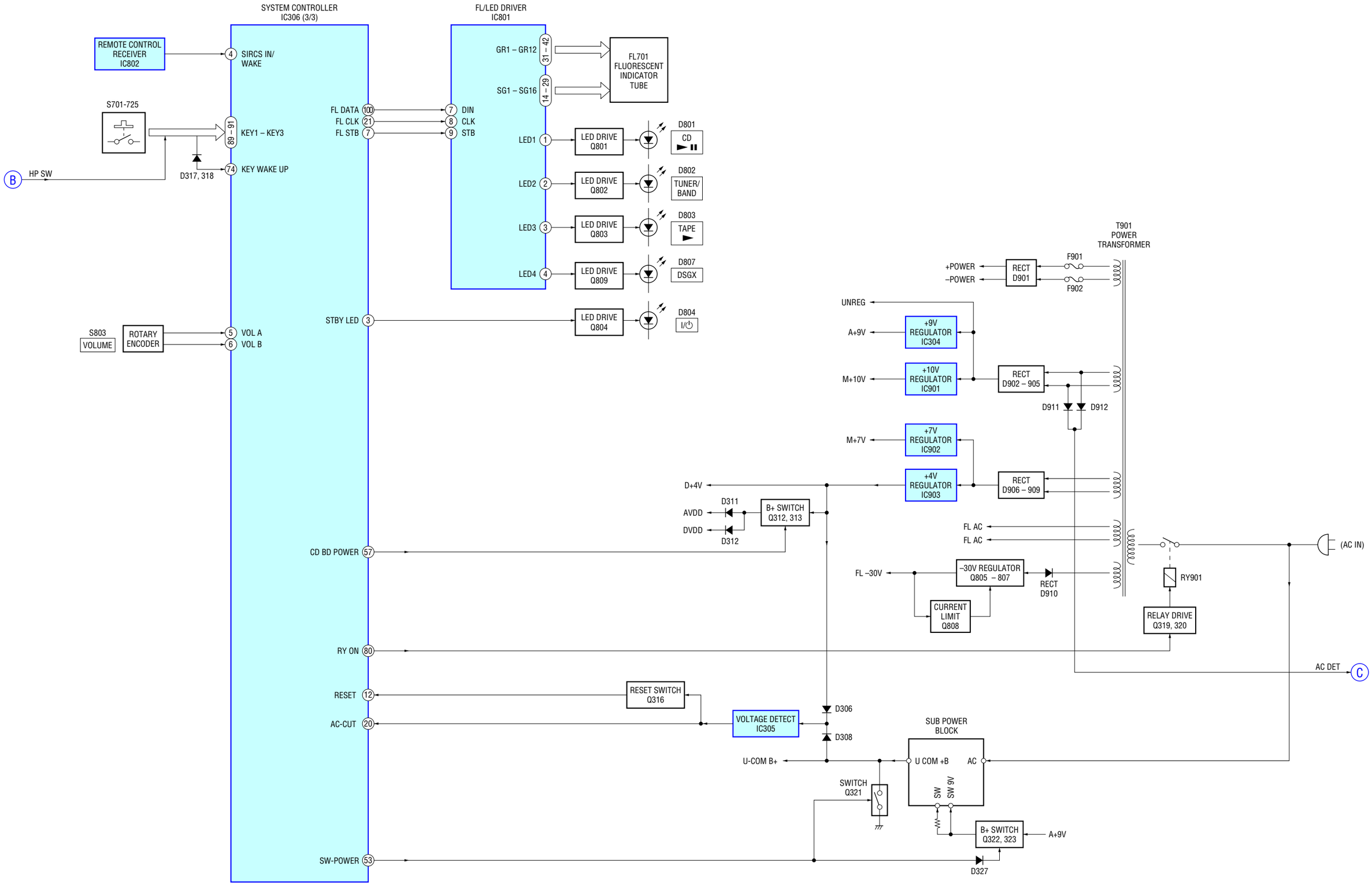


7-2. BLOCK DIAGRAM — MAIN SECTION —



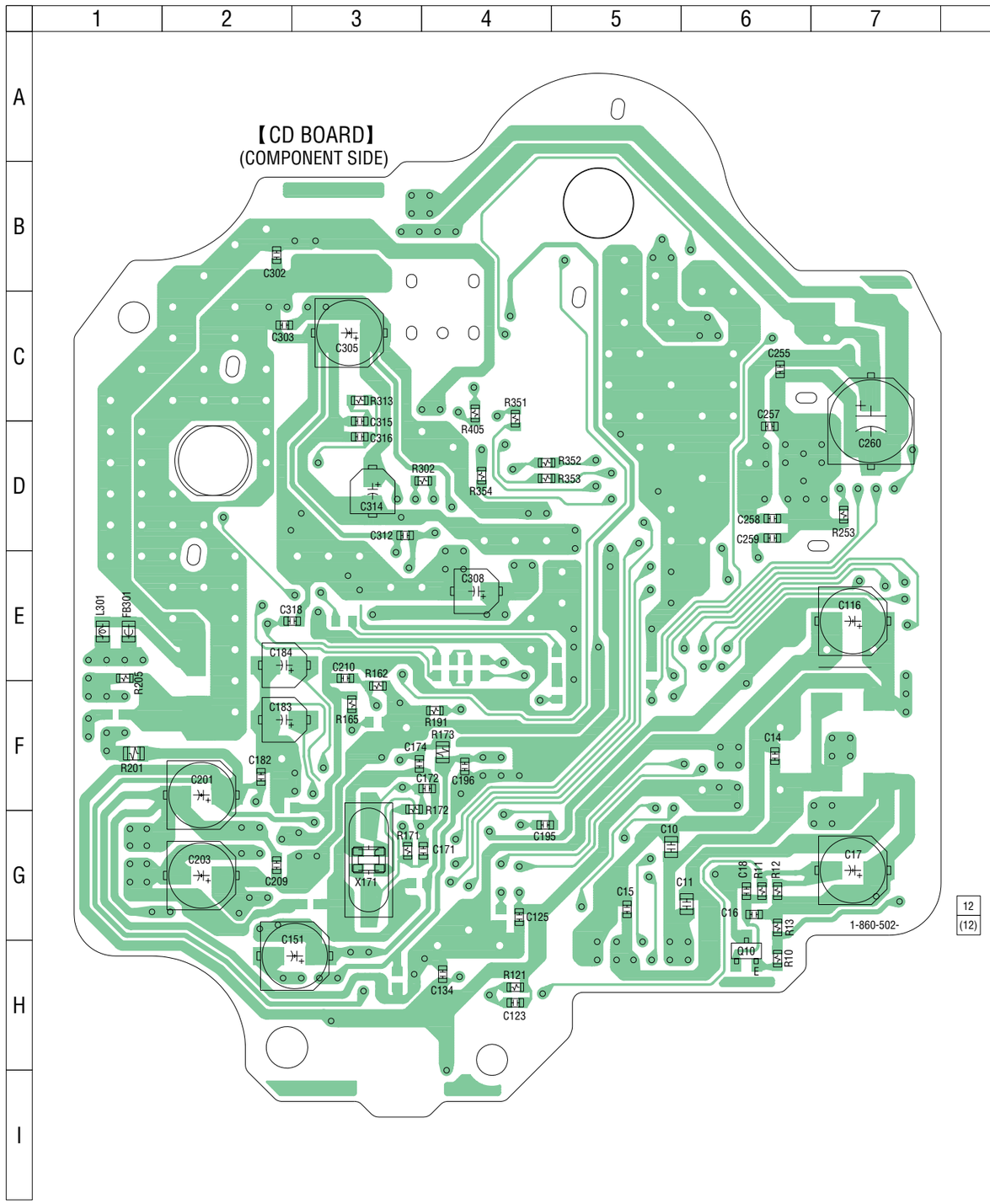
- R-ch is omitted due to same as L-ch.
- SIGNAL PATH
  - : FM
  - : CD PLAY
  - : TAPE PLAY
  - : TAPE REC
  - : AUX IN

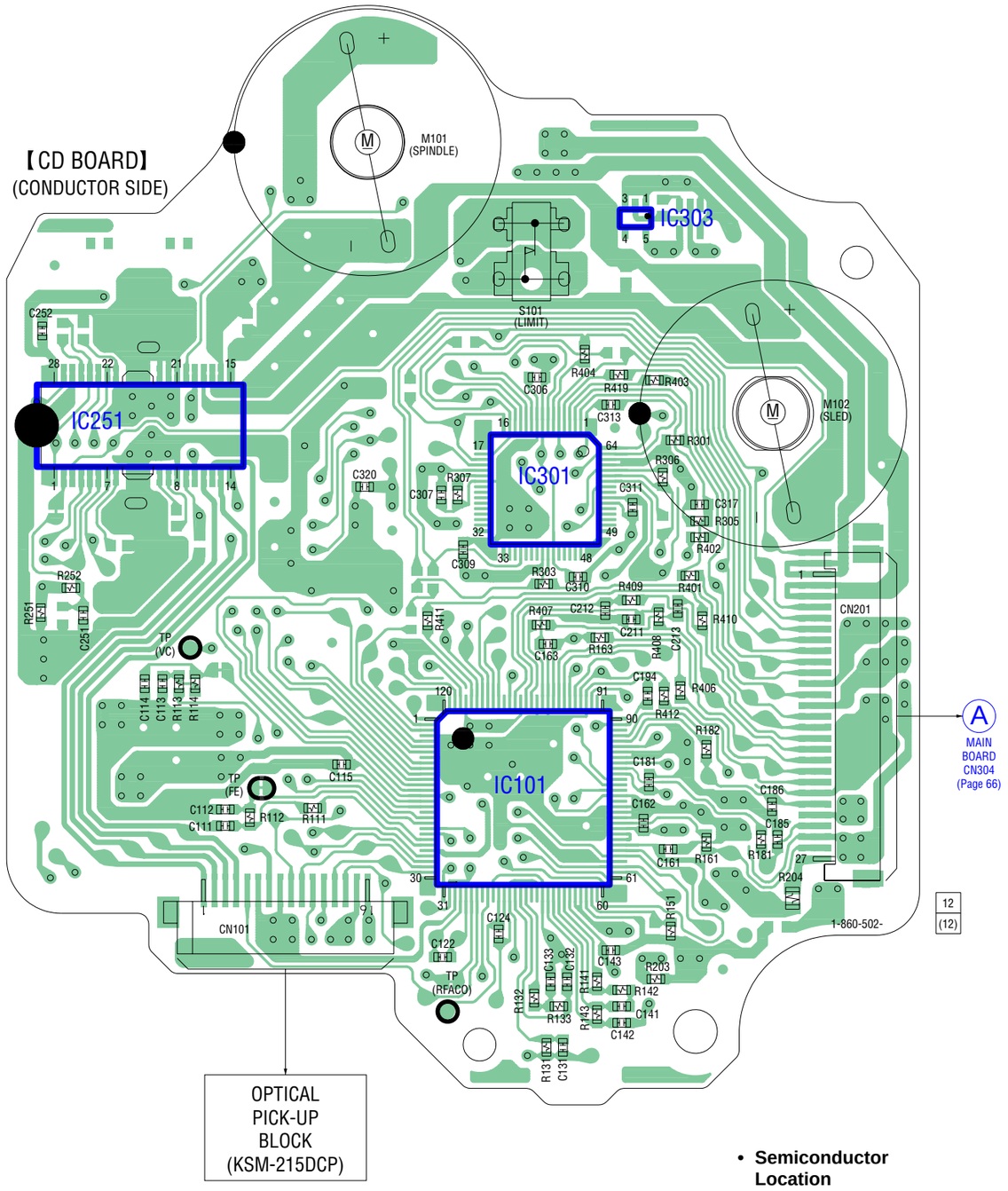
7-3. BLOCK DIAGRAM — PANEL/POWER SUPPLY SECTION —



7-4. PRINTED WIRING BOARD — CD BOARD —

• See page 57 for Circuit Boards Location. :Uses unleaded solder.





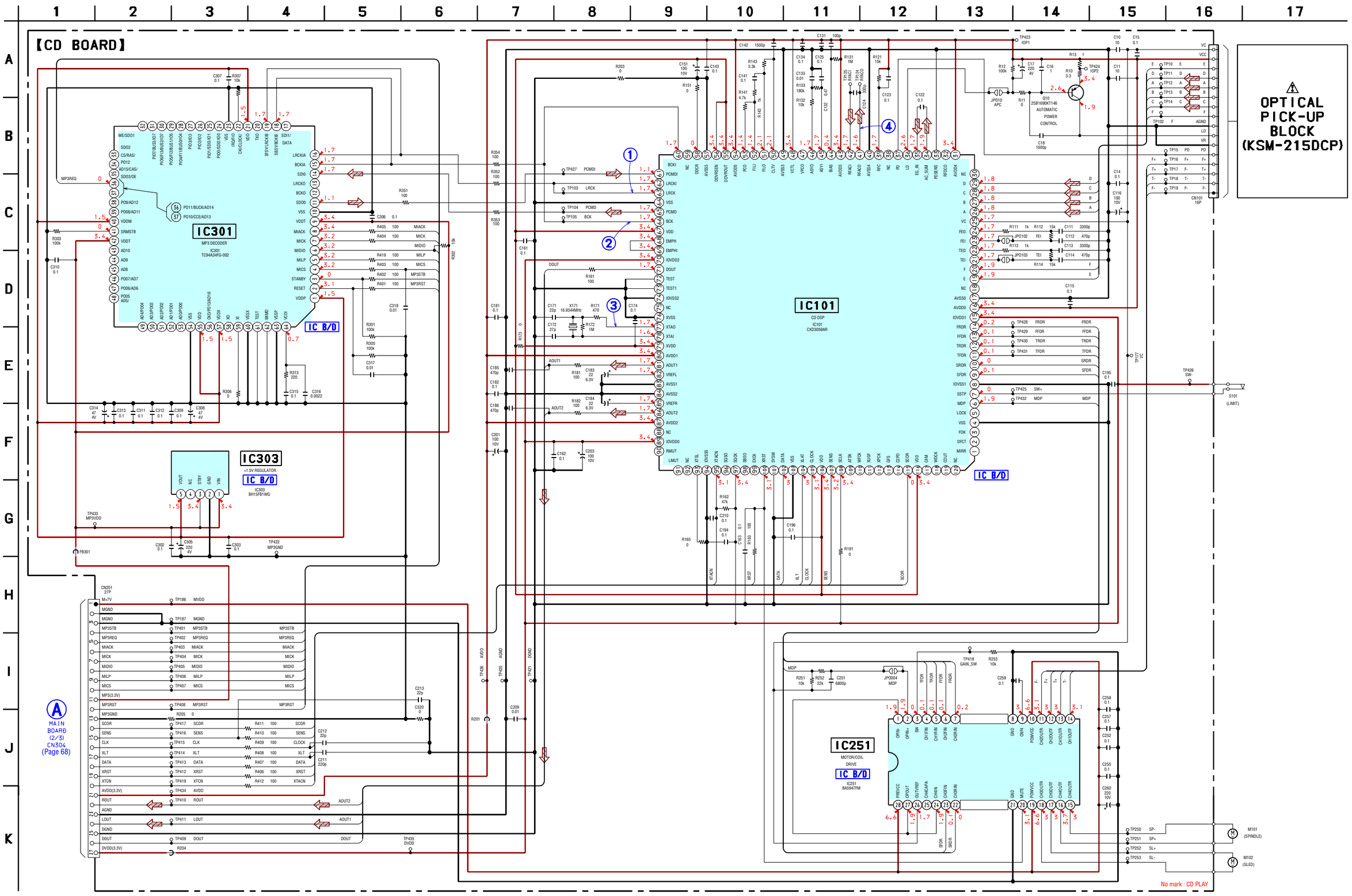
OPTICAL
PICK-UP
BLOCK
(KSM-215DCP)

- **Semiconductor Location**

Ref. No.	Location
IC101	F-12
IC251	D-9
IC301	D-12
IC303	B-13
Q10	H-6

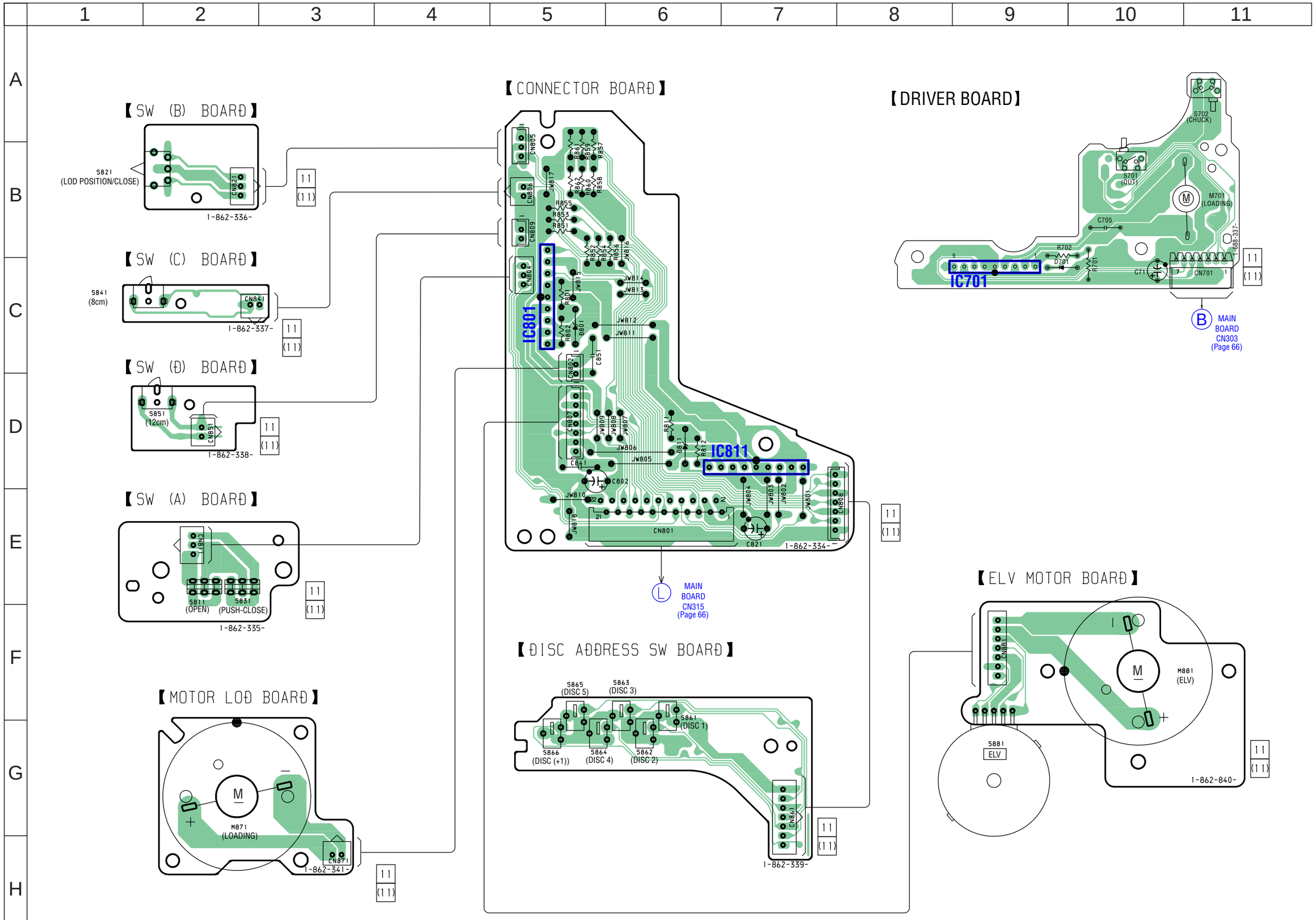
7-5. SCHEMATIC DIAGRAM — CD BOARD —

• See page 58 for Waveforms. • See page 76, 77 for IC Block Diagrams.



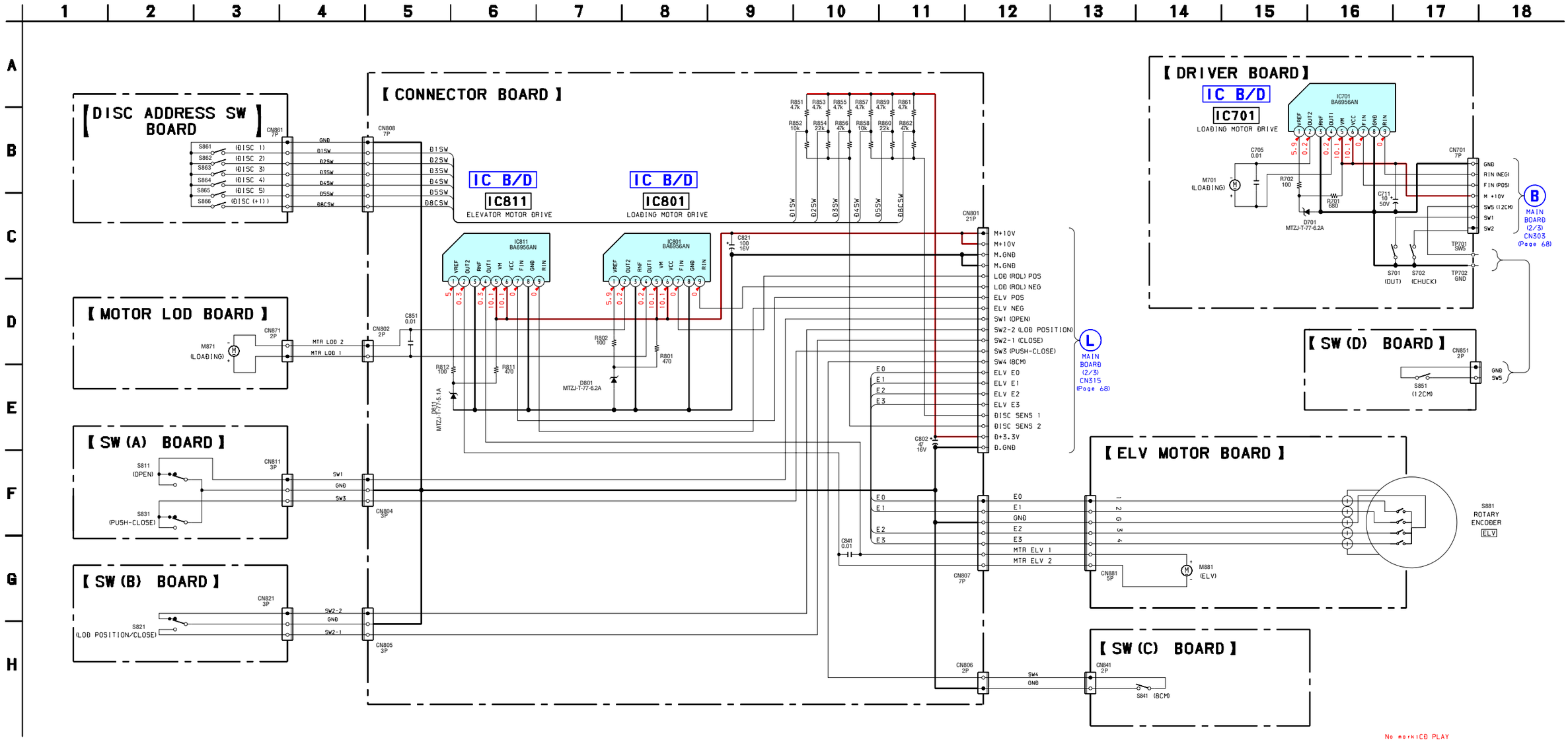
7-6. PRINTED WIRING BOARD — CD MECHANISM SECTION —

• See page 57 for Circuit Boards Location. :Uses unleaded solder.



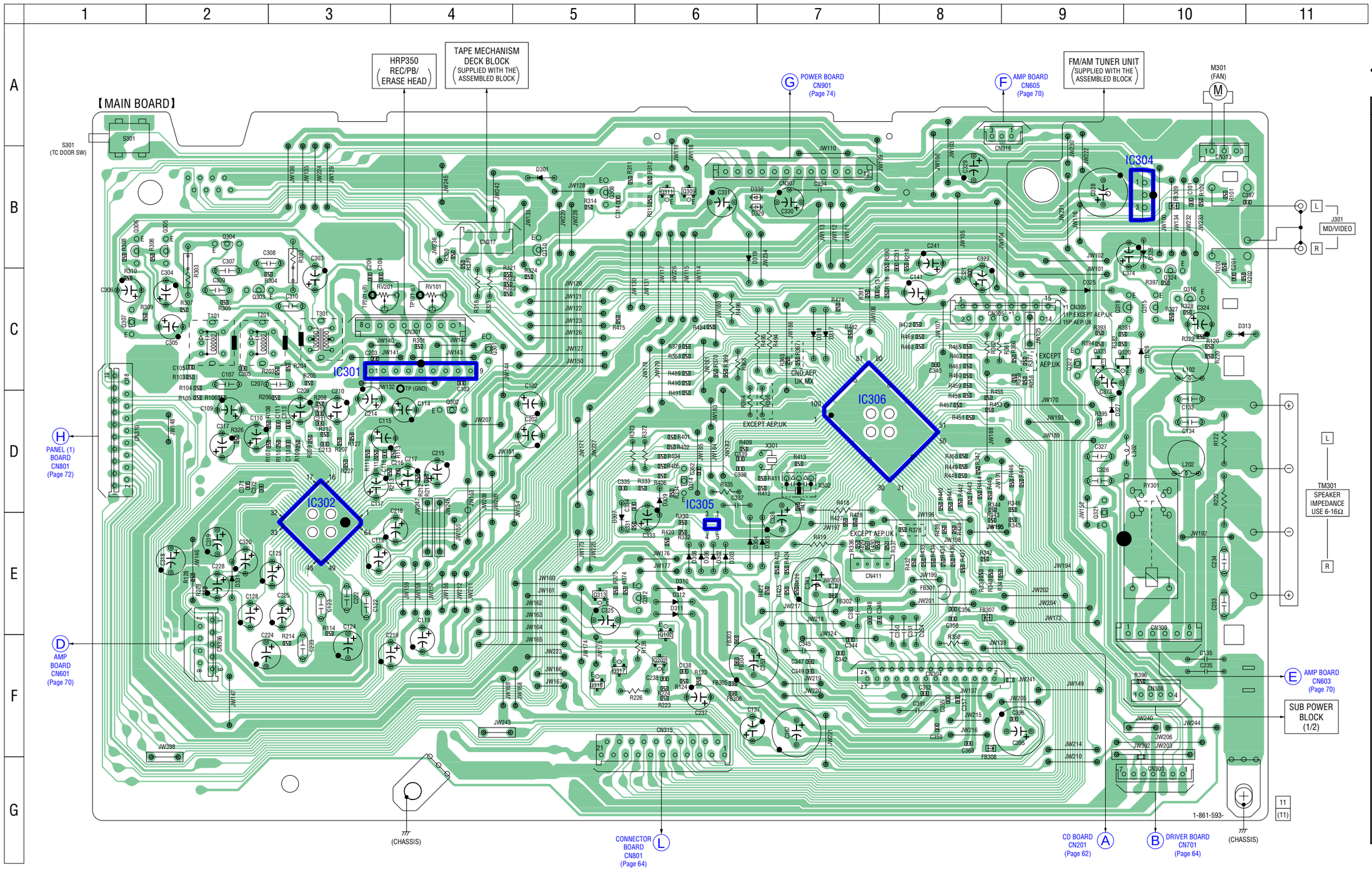
7-7. SCHEMATIC DIAGRAM — CD MECHANISM SECTION —

• See page 78 for IC Block Diagram.



7-8. PRINTED WIRING BOARD — MAIN BOARD —

• See page 57 for Circuit Boards Location. :Uses unleaded solder.

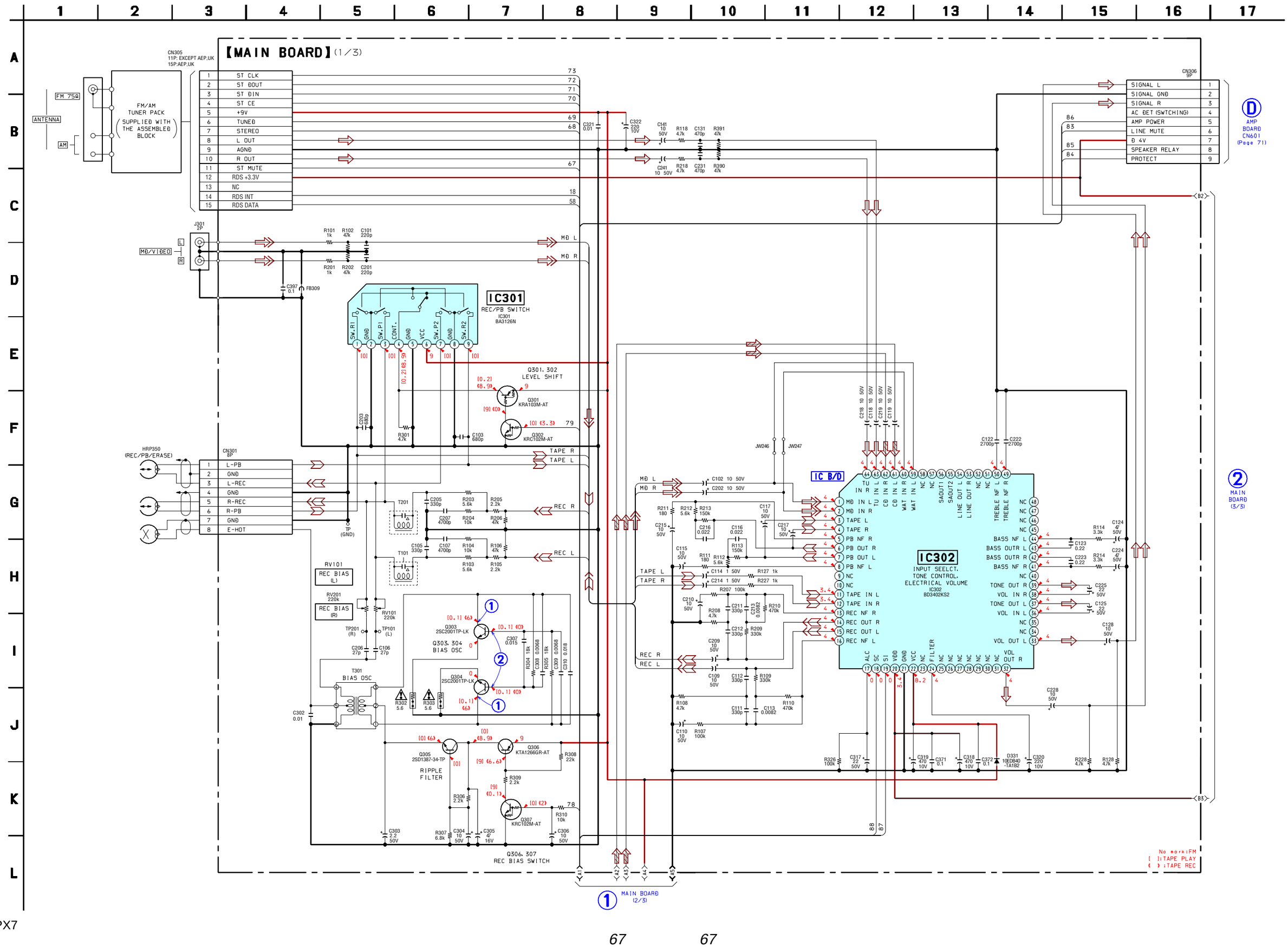


• **Semiconductor Location**

Ref. No.	Location
D301	B-5
D302	E-6
D303	E-6
D304	E-6
D305	E-7
D306	E-6
D307	D-5
D308	E-6
D309	D-6
D310	E-6
D311	E-6
D312	E-6
D313	C-10
D317	C-7
D318	C-7
D319	B-6
D325	C-9
D326	C-10
D327	D-9
D328	B-10
D329	B-6
D330	B-6
D331	E-2
IC301	C-4
IC302	E-3
IC304	B-10
IC305	E-6
IC306	D-8
Q102	F-6
Q202	F-6
Q301	C-4
Q302	D-4
Q303	C-2
Q304	B-2
Q305	B-2
Q306	B-1
Q307	C-1
Q308	B-5
Q309	B-6
Q310	B-5
Q311	B-6
Q312	E-5
Q313	E-5
Q314	D-6
Q315	C-10
Q316	C-10
Q317	F-5
Q318	F-5
Q319	C-10
Q320	C-9
Q321	E-9
Q322	C-9
Q323	C-9
Q324	C-10

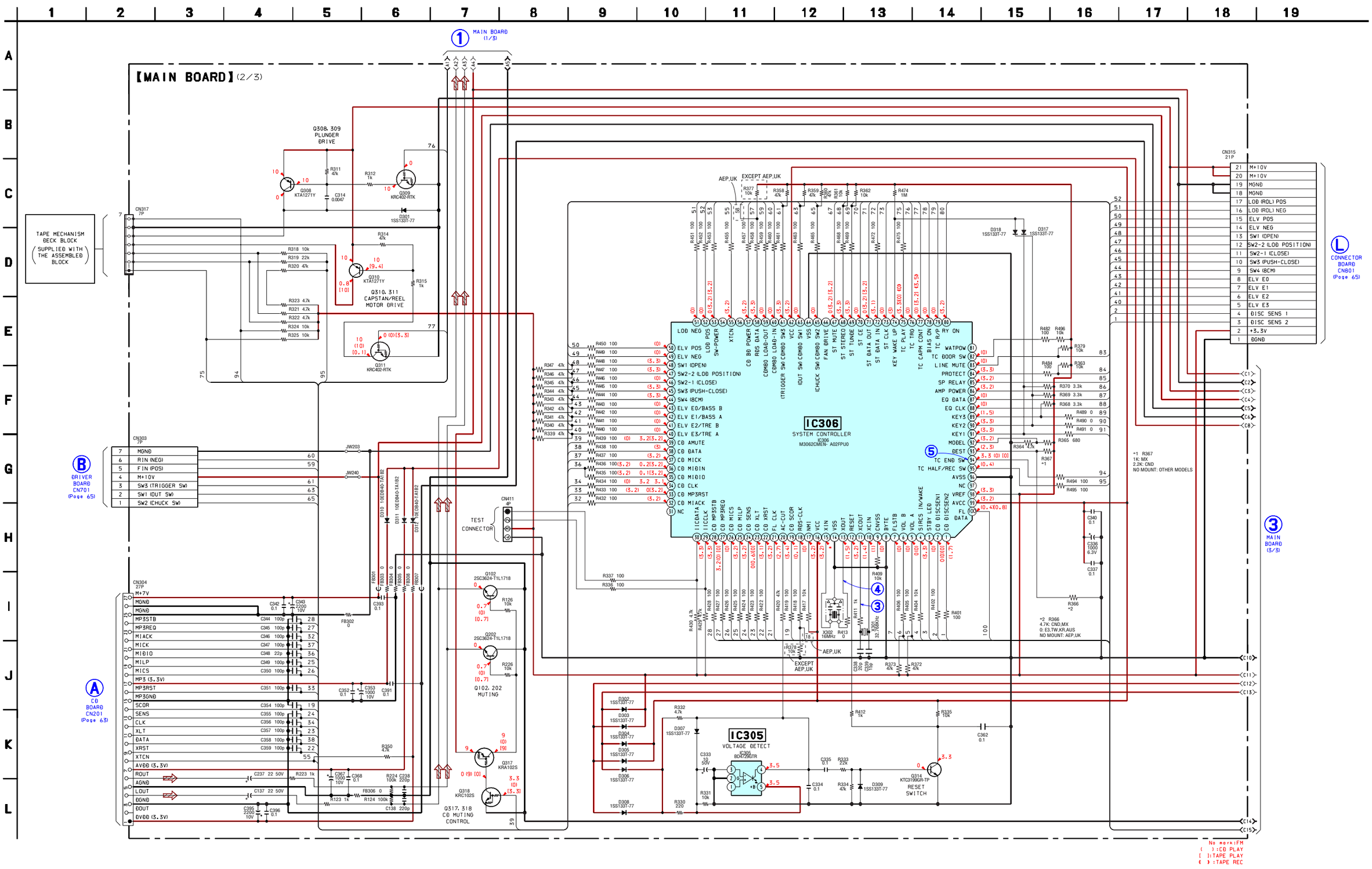
7-9. SCHEMATIC DIAGRAM — MAIN BOARD (1/3) —

• See page 58 for Waveforms. • See page 78 for IC Block Diagram.

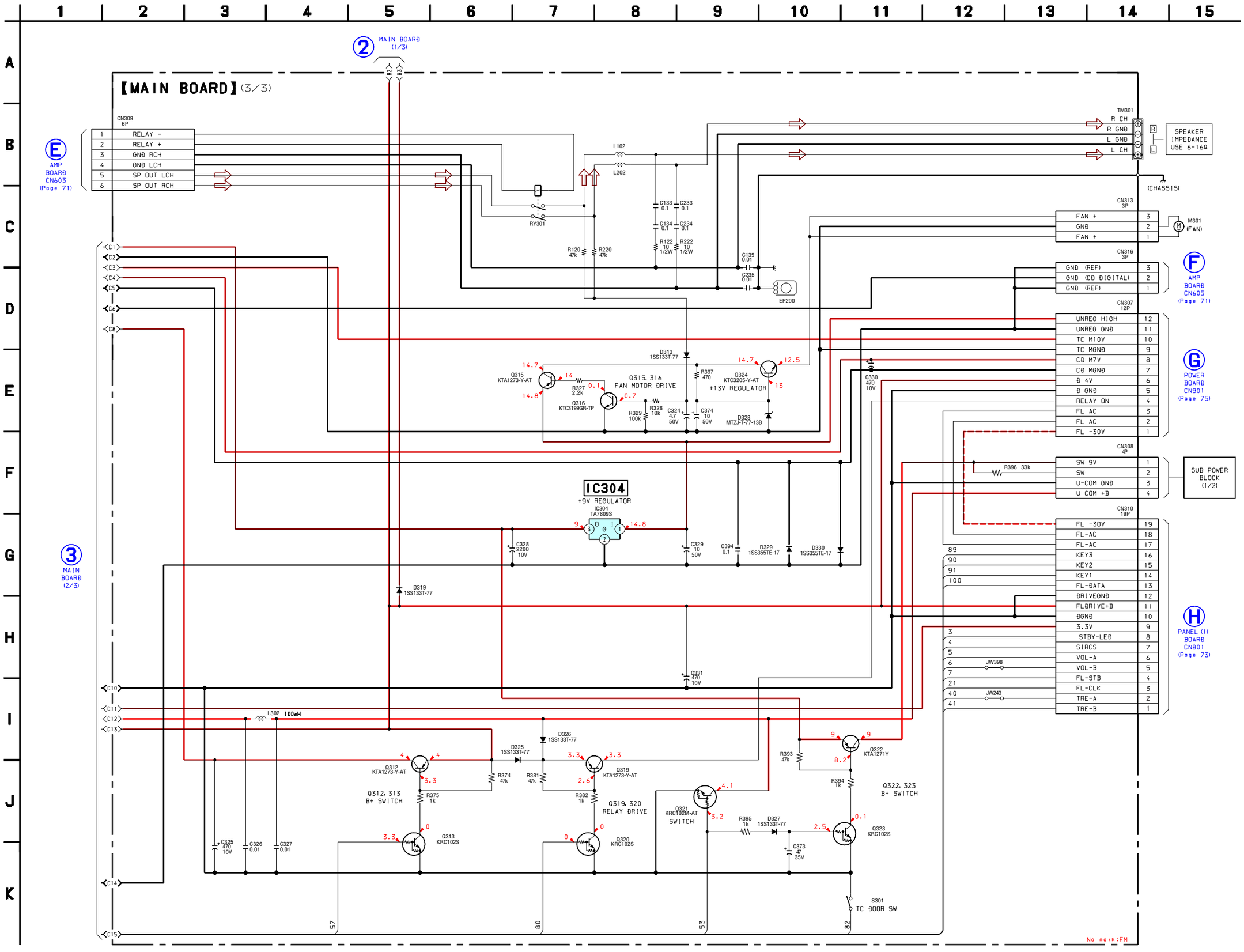


7-10. SCHEMATIC DIAGRAM — MAIN BOARD (2/3) —

• See page 58 for Waveforms. • See page 80 for IC Pin Function Description.

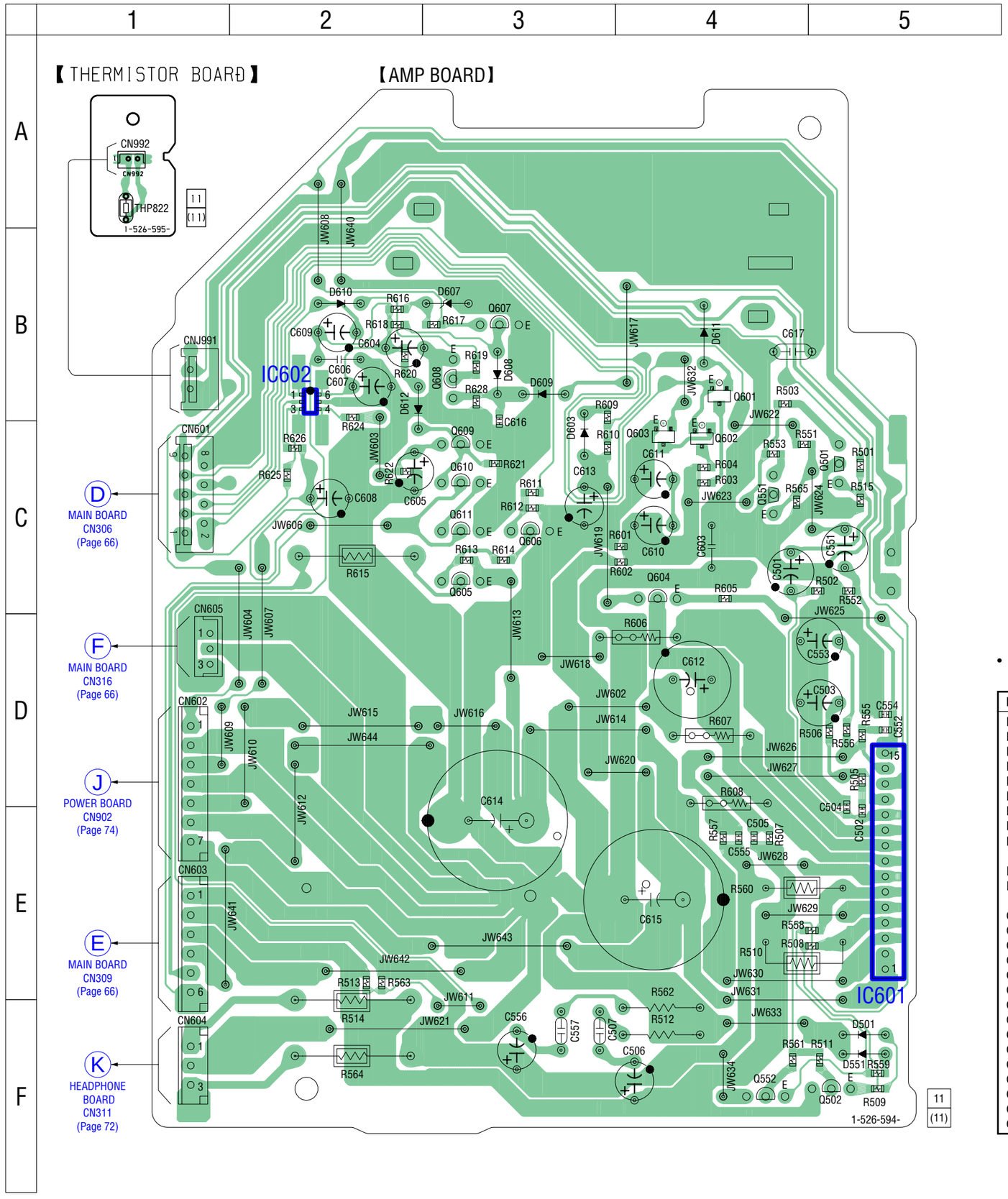


7-11. SCHEMATIC DIAGRAM — MAIN BOARD (3/3) —



7-12. PRINTED WIRING BOARD — AMP BOARD —

• See page 57 for Circuit Boards Location. :Uses unleaded solder.

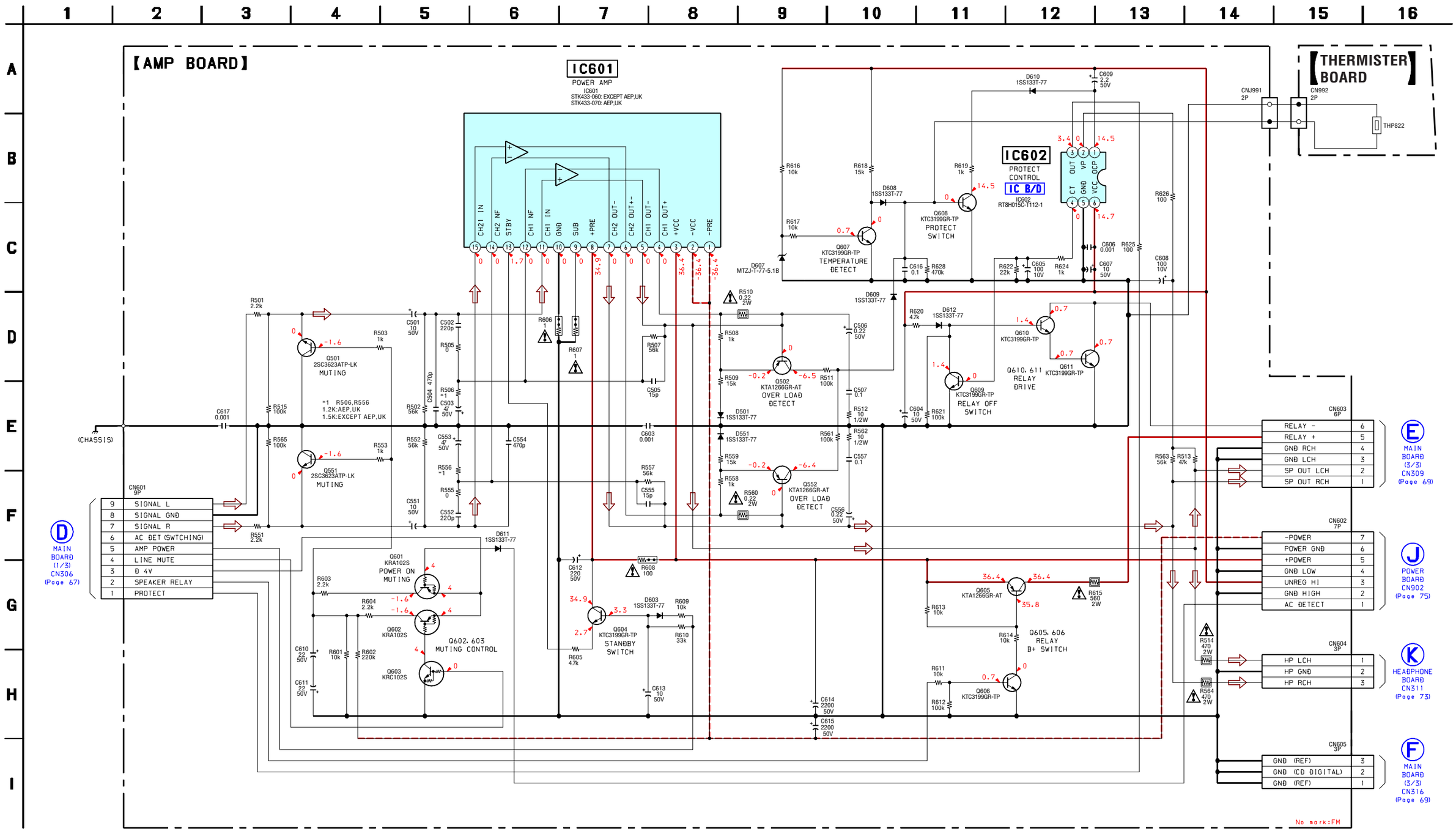


• **Semiconductor Location**

Ref. No.	Location
D501	F-5
D551	F-5
D603	C-3
D607	B-3
D608	B-3
D609	B-3
D610	B-2
D611	B-4
D612	B-2
IC601	E-5
IC602	B-2
Q501	C-5
Q502	F-5
Q551	C-4
Q552	F-4
Q601	B-4
Q602	C-4
Q603	C-4
Q604	C-4
Q605	C-3
Q606	C-3
Q607	B-3
Q608	B-3
Q609	C-3
Q610	C-3
Q611	C-3

7-13. SCHEMATIC DIAGRAM — AMP BOARD —

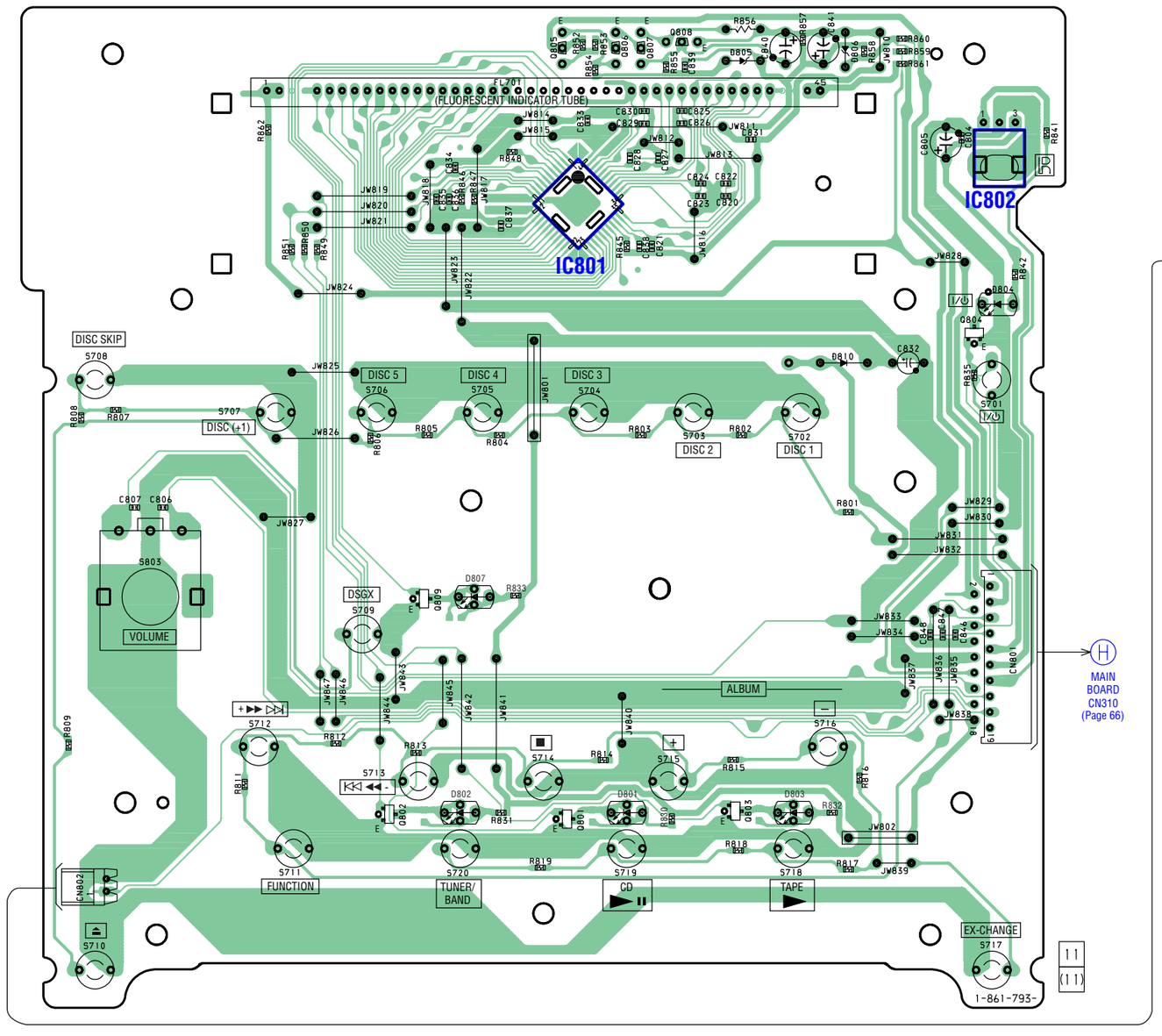
• See page 79 for IC Block Diagram.



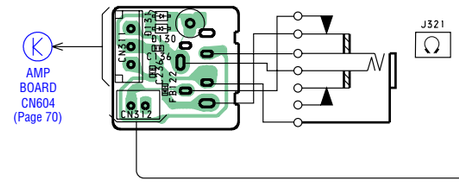
7-14. PRINTED WIRING BOARD — PANEL SECTION —

• See page 57 for Circuit Boards Location. :Uses unleaded solder.

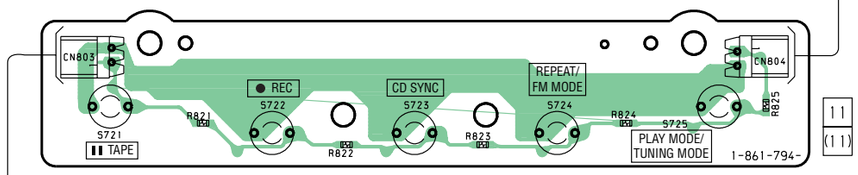
【PANEL (1) BOARD】



【HEADPHONE BOARD】



【PANEL (2) BOARD】

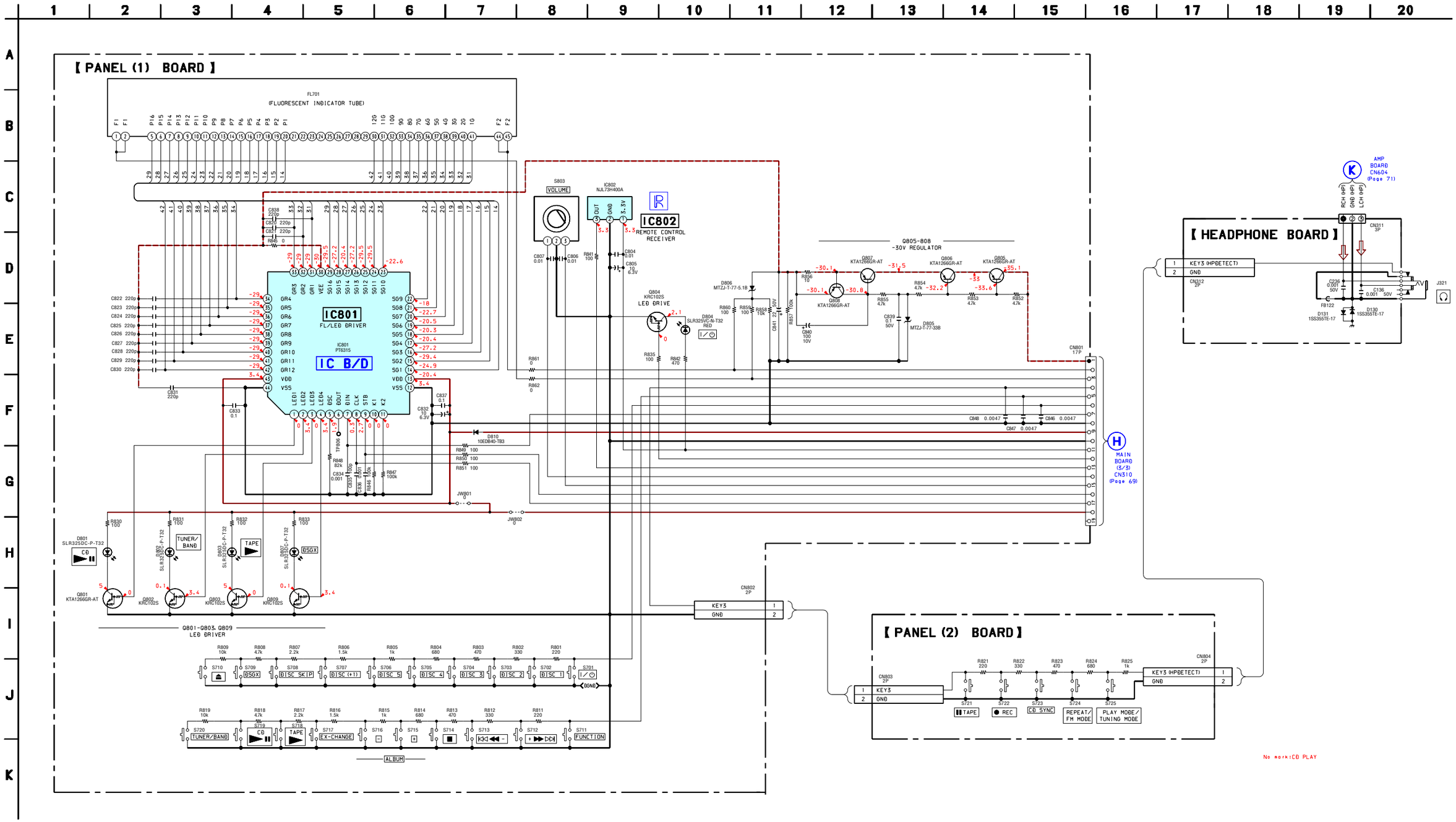


- **Semiconductor Location**

Ref. No.	Location
D801	F-5
D802	F-4
D803	F-6
D804	C-7
D805	A-6
D806	A-6
D807	E-4
D810	C-6
IC801	B-5
IC802	B-7
Q801	F-5
Q802	F-4
Q803	F-6
Q804	C-7
Q805	A-5
Q806	A-5
Q807	A-5
Q808	A-5
Q809	E-4

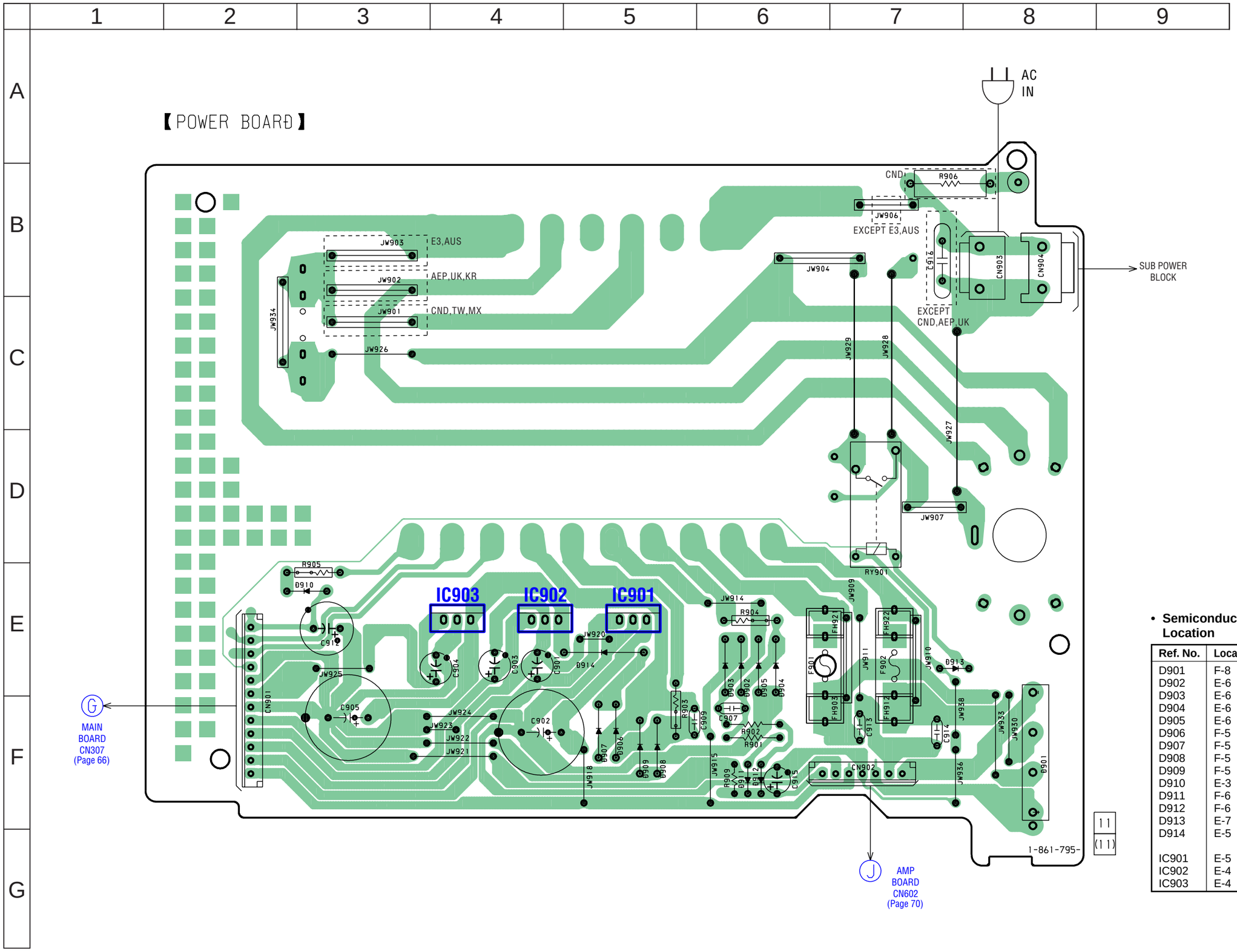
7-15. SCHEMATIC DIAGRAM — PANEL SECTION —

• See page 79 for IC Block Diagram.



7-16. PRINTED WIRING BOARD — POWER BOARD —

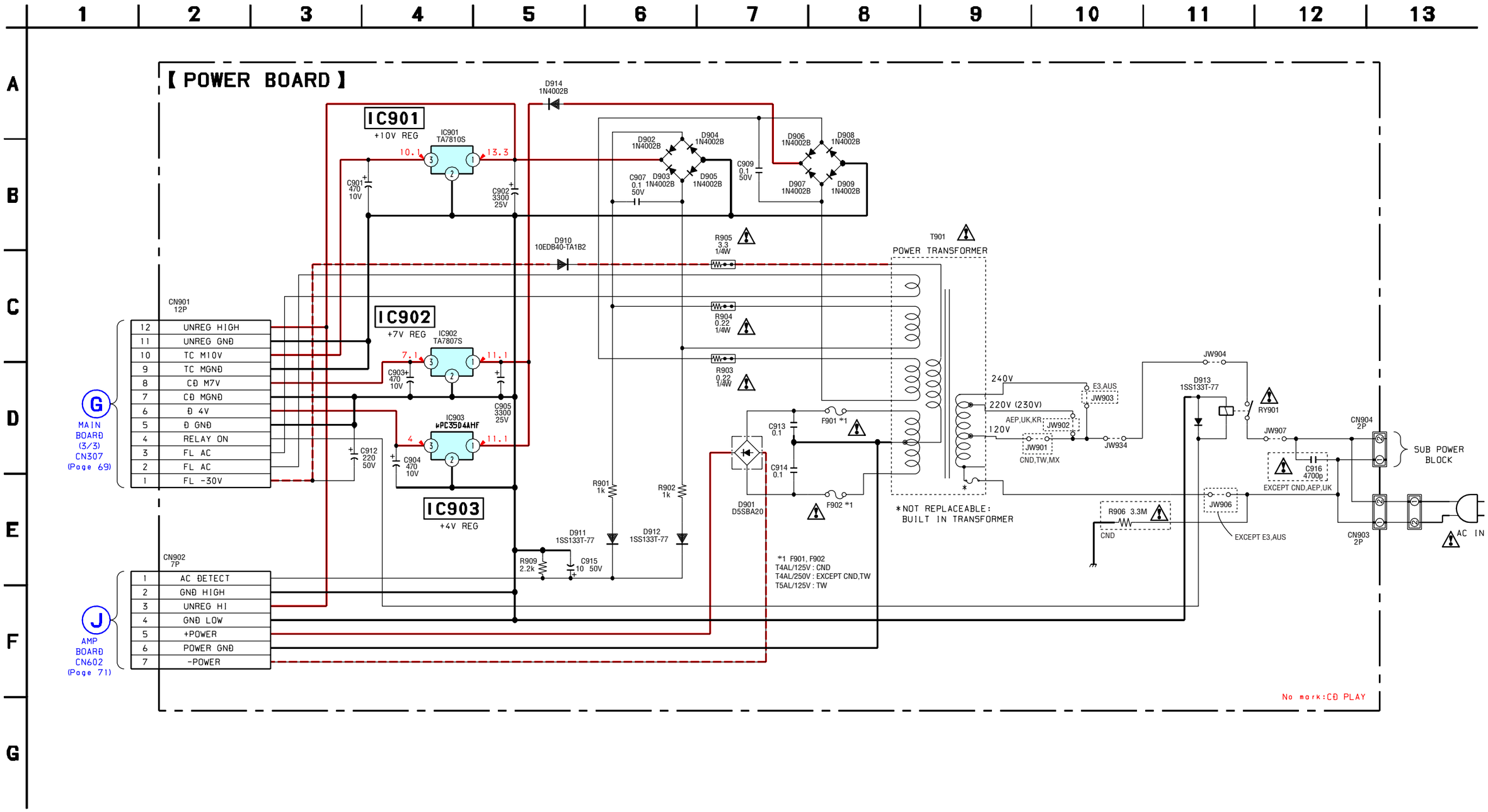
• See page 57 for Circuit Boards Location. :Uses unleaded solder.



• **Semiconductor Location**

Ref. No.	Location
D901	F-8
D902	E-6
D903	E-6
D904	E-6
D905	E-6
D906	F-5
D907	F-5
D908	F-5
D909	F-5
D910	E-3
D911	F-6
D912	F-6
D913	E-7
D914	E-5
IC901	E-5
IC902	E-4
IC903	E-4

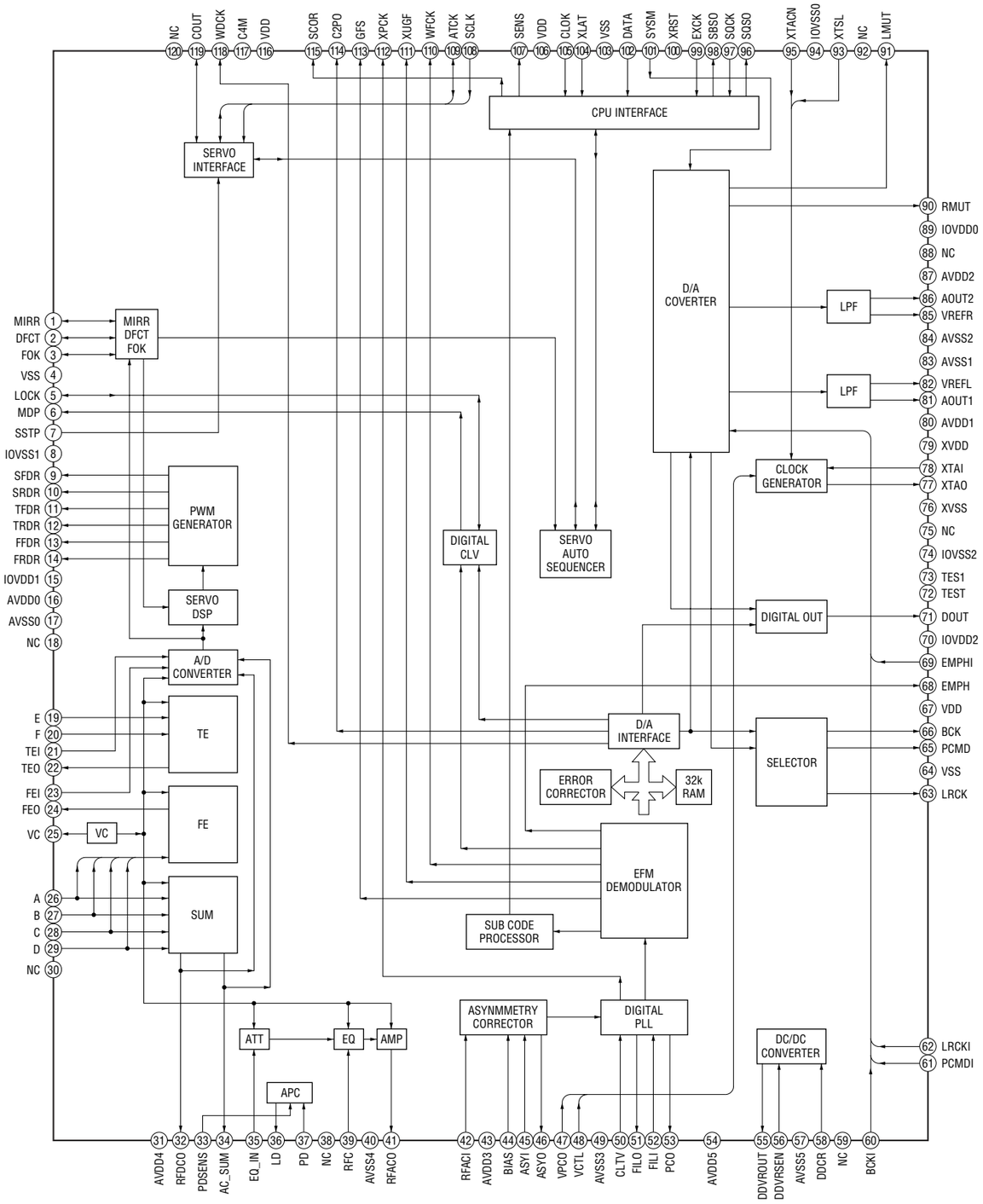
7-17. SCHEMATIC DIAGRAM — POWER BOARD —



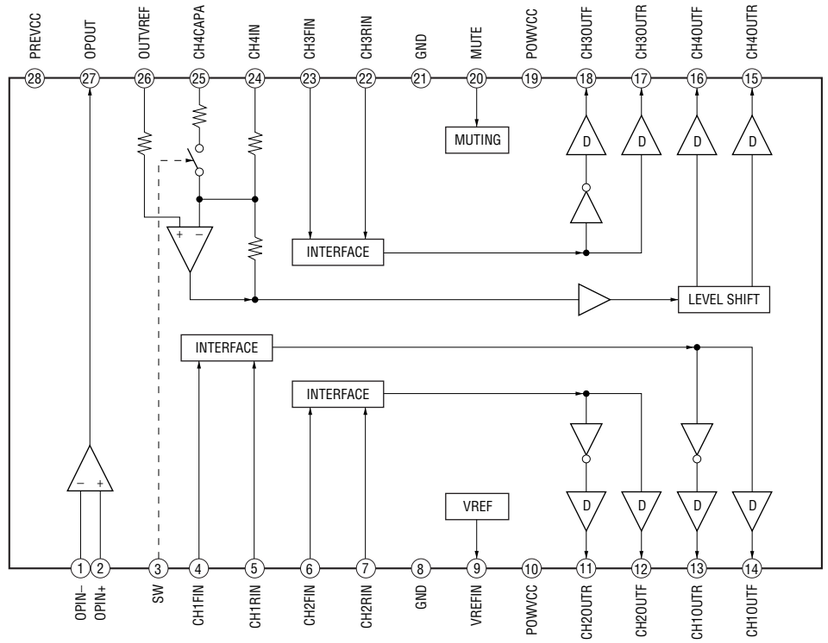
- **IC Block Diagrams**

– CD BOARD –

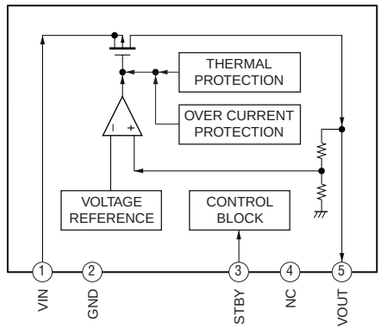
IC101 CXD3059AR



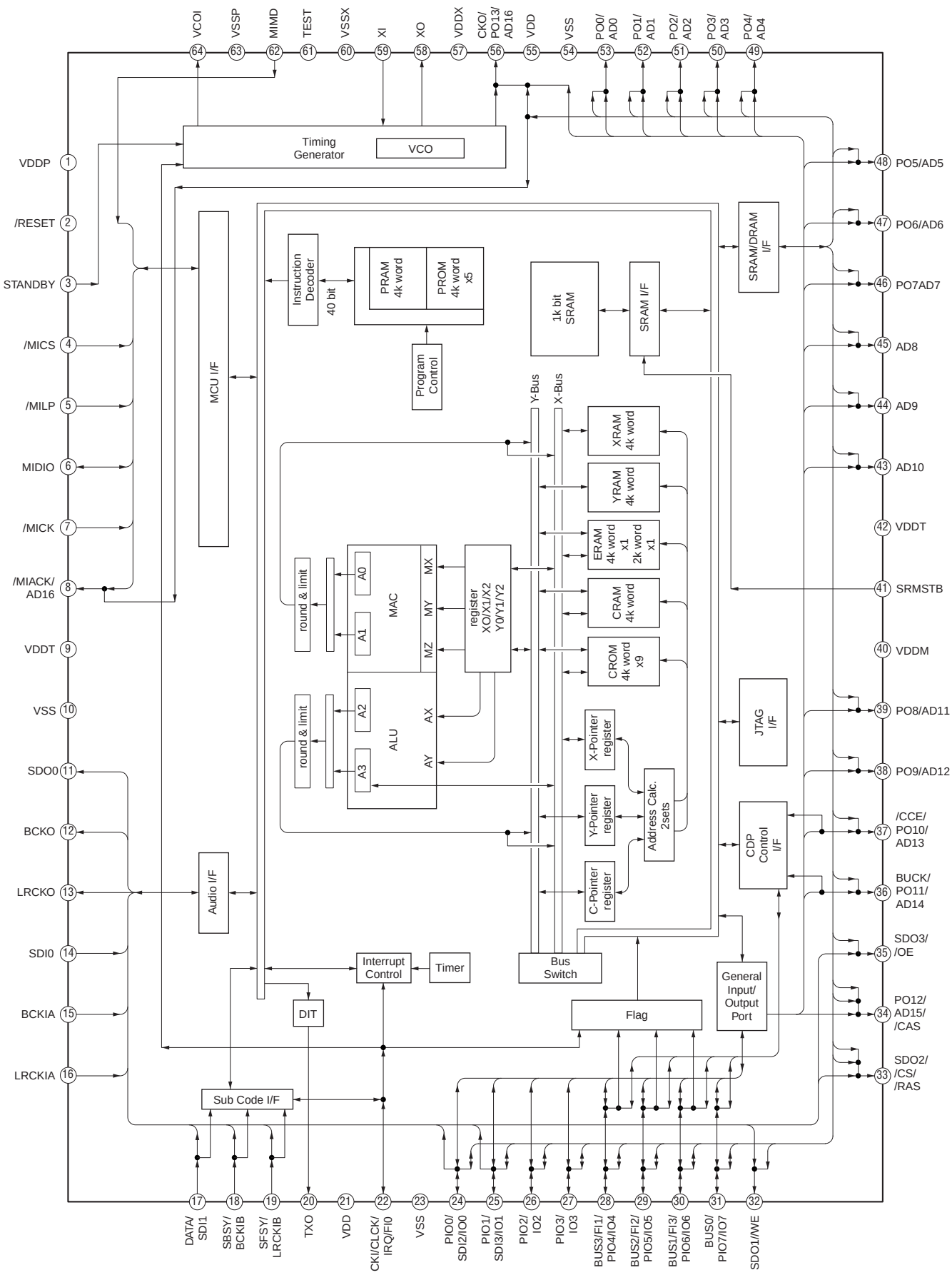
IC251 BA5947FM



IC303 BH15FB1WG



IC301 TC94A34FG-002

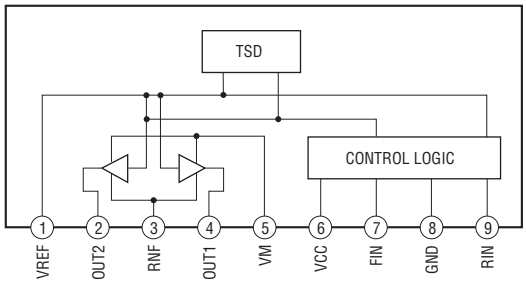


– CONNECTOR BOARD –

IC801, 811 BA6956AN

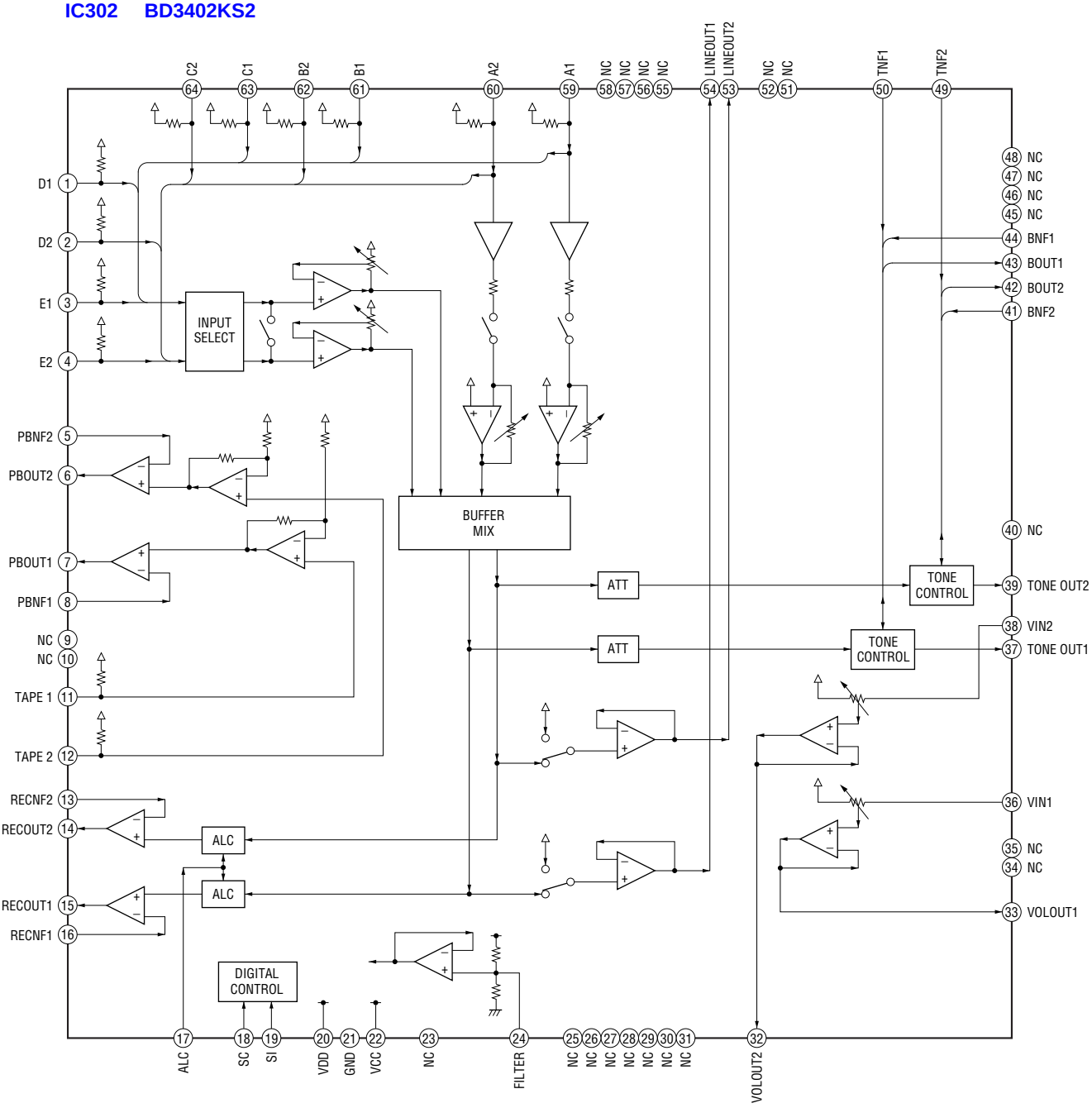
– DRIVER BOARD –

IC701 BA6956AN



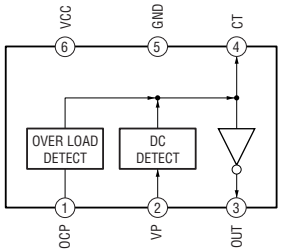
– MAIN BOARD –

IC302 BD3402KS2



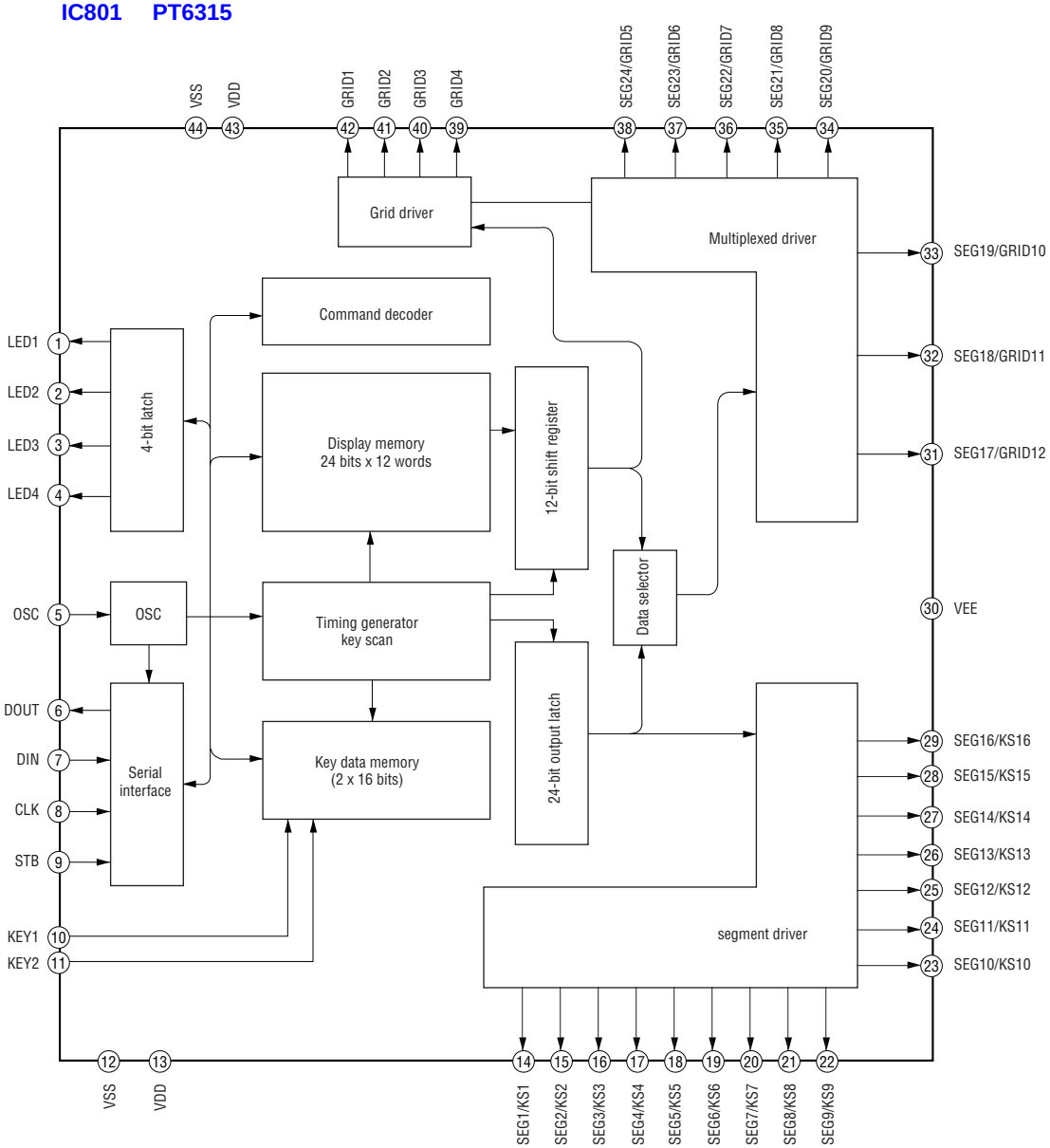
– AMP BOARD –

IC602 RT8H015C-T112-1



– PANEL (1) BOARD –

IC801 PT6315



• **IC Pin Function Description**
MAIN BOARD IC306 M3062CMEN-A02FPU0 (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	CD DISCSENS 2	I	DISC 4, 5 and DISC (+1) detect signal input
2	CD DISCSENS 1	I	DISC 1 to 3 detect signal input
3	STBY LED	O	LED drive signal output terminal (power)
4	SIRCS IN/WAKE	I	SIRCS signal input terminal
5, 6	VOL A, VOL B	I	Jog dial pulse input terminal (volume)
7	FLSTB	O	Serial data read strobe signal output to the FL/LED driver
8	BYTE	I	External data bus width select signal input terminal (fixed “L”)
9	CNVSS	—	Ground terminal
10	XCIN	I	Sub system clock input terminal (32.768 kHz)
11	XCOUT	O	Sub system clock output terminal (32.768 kHz)
12	RESET	I	System reset signal input terminal “L”: reset For several hundreds msec. after the power supply rises, “L” is input, then it changes to “H”
13	XOUT	O	Main system clock output terminal (16 MHz)
14	VSS	—	Ground terminal
15	XIN	I	Main system clock input terminal (16 MHz)
16	VCC	—	Power supply terminal (+3.3V)
17	NMI	I	Non-maskable interrupt signal input terminal Not used
18	RDS-CLK	I	RDS serial data transfer clock signal input terminal (only for AEP, UK models)
19	CD SCOR	I	Subcode Q data request signal input terminal
20	AC-CUT	I	Power down detection signal input terminal “L”: power down
21	FL CLK	O	Serial data transfer clock signal output to the FL/LED driver
22	CD XRST	O	System reset signal output to the CD servo block
23	CD XLT	O	Latch pulse signal output to the CD servo block
24	CD SENS	I	Internal status (SENSE) input from the CD DSP
25	CD MILP	O	Serial data latch pulse output to the MP3 decoder
26	CD MICS	O	Chip select signal output to the MP3 decoder
27	CD MP3REQ	I	Data transfer request signal input from the MP3 decoder
28	CD MP3STB	O	Standby signal output to the MP3 decoder
29	IICCLK	I/O	IIC data transfer clock signal input and output Not used
30	IICDATA	I/O	IIC two-way data bus Not used
31	NC	O	Not used
32	CD MIACK	I	Acknowledge signal input from the MP3 decoder
33	CD MP3RST	O	Reset signal output to the MP3 decoder
34	CD CLK	O	Serial data transfer clock signal output to the CD DSP
35	CD MIDIO	O	Serial data output to the MP3 decoder
36	CD MIDIN	I	Serial data input from the MP3 decoder
37	CD MICK	O	Serial data transfer clock signal output to the MP3 decoder
38	CD DATA	O	Serial data output to the CD DSP
39	CD AMUTE	O	CD muting on/off control signal output terminal
40	ELV E3/TRE A	I	ELV pulse input from the rotary encoder
41	ELV E2/TRE B	I	ELV dial pulse input from the rotary encoder
42	ELV E1/BASS A	I	ELV dial pulse input from the rotary encoder
43	ELV E0/BASS B	I	ELV dial pulse input from the rotary encoder
44	SW4 (8CM)	I	CD disc size detection (8cm) signal input terminal
45	SW3 (PUSH-CLOSE)	I	CD push-close switch input terminal
46	SW2-1 (CLOSE)	I	CD close switch input terminal

Pin No.	Pin Name	I/O	Description
47	SW2-2 (LOD POSITION)	I	CD loading position switch input terminal
48	SW1 (OPEN)	I	CD open switch input terminal
49	ELV NEG	O	Elevator up/down motor control signal output
50	ELV POS	O	Elevator up/down motor control signal output
51	LOD NEG	O	Loading motor control signal output
52	LOD POS	O	Loading motor control signal output
53	SW-POWER	O	Sub power block on/off control signal output terminal
54	—	O	Not used
55	XTCN	O	Oscillator control signal output to the CD DSP
56	—	O	Not used
57	CD BD POWER	O	Power on/off control signal output for CD block
58	RDS DATA	I	RDS serial data input terminal (only for AEP, UK models)
59	CDM80 LOAD-OUT	O	Loading motor control signal output (loading out direction)
60	CDM80 LOAD-IN	O	Loading motor control signal output (loading in direction)
61	(TRIGGER SW) CDM80 SW3	I	12cm DISC switch “L”: switch on
62	VCC	—	Power supply terminal (+3.3V)
63	(OUT SW) CDM80 SW1	I	Out switch input terminal “L”: switch on
64	VSS	—	Ground terminal
65	(CHUCK SW) CDM80 SW2	I	Chuck switch input terminal “L”: switch on
66	FAN DRIVE	O	Fan motor drive signal output terminal Not used
67	ST MUTE	O	Tuner muting on/off control signal output terminal
68	ST STEREO	I	FM stereo detection signal input from the tuner unit “L”: stereo
69	ST TUNED	I	Tuning detection signal input from the tuner unit “L”: tuned
70	ST CE	O	Chip enable signal output to the FM/AM tuner unit
71	ST DATA OUT	O	Serial data output to the FM/AM tuner unit
72	ST DATA IN	I	Serial data input from the FM/AM tuner unit
73	ST CLK	O	Serial data transfer clock signal output to the FM/AM tuner unit
74	KEY WAKE UP	I	System wake up signal input terminal in the standby status
75	TC PLAY	I	Tape play switch input terminal
76	TC TRG	O	Plunger driver signal output terminal “L”: plunger on
77	TC CAPM CONT	O	Capstan/reel motor drive signal output terminal “L”: forward, “H”: reverse
78	BIAS ON	O	REC bias on/off control signal output terminal “H”: REC bias on
79	TC R/P	O	PB/REC switching control signal output terminal “L”: PB
80	RY ON	O	Relay drive signal output for main power supply “H”: power on
81	WATPOW	O	Not used
82	TC DOOR SW	I	Tape deck lid open/close detection signal input terminal
83	LINE MUTE	O	Line muting on/off control signal output terminal “H”: muting on
84	PROTECT	I	Protect signal input from the amplifier circuit “L”: protect
85	SP RELAY	O	Speaker on/off relay drive signal output terminal “L”: speaker off
86	AMP POWER	O	AMP muting on/off control signal output terminal “H”: AMP on
87	EQ DATA	O	Serial data output to the electrical volume
88	EQ CLK	O	Serial data transfer clock signal output to the electrical volume
89 to 91	KEY3 to KEY1	I	Front panel key or headphone detection input terminal (A/D input)

Pin No.	Pin Name	I/O	Description
92	MODEL	I	Setting terminal for the model type
93	DEST	I	Setting terminal for the destination
94	TC END SW	I	End switch detection from tape deck block
95	TC HALF/REC SW	I	Half/REC switch detection from tape deck block
96	AVSS	—	Ground terminal
97	NC	O	Not used
98	VREF	I	Reference voltage (+3.3V) input terminal
99	AVCC	—	Power supply terminal (+3.3V)
100	FL DATA	O	Serial data output to the FL/LED driver

SECTION 8
EXPLODED VIEWS

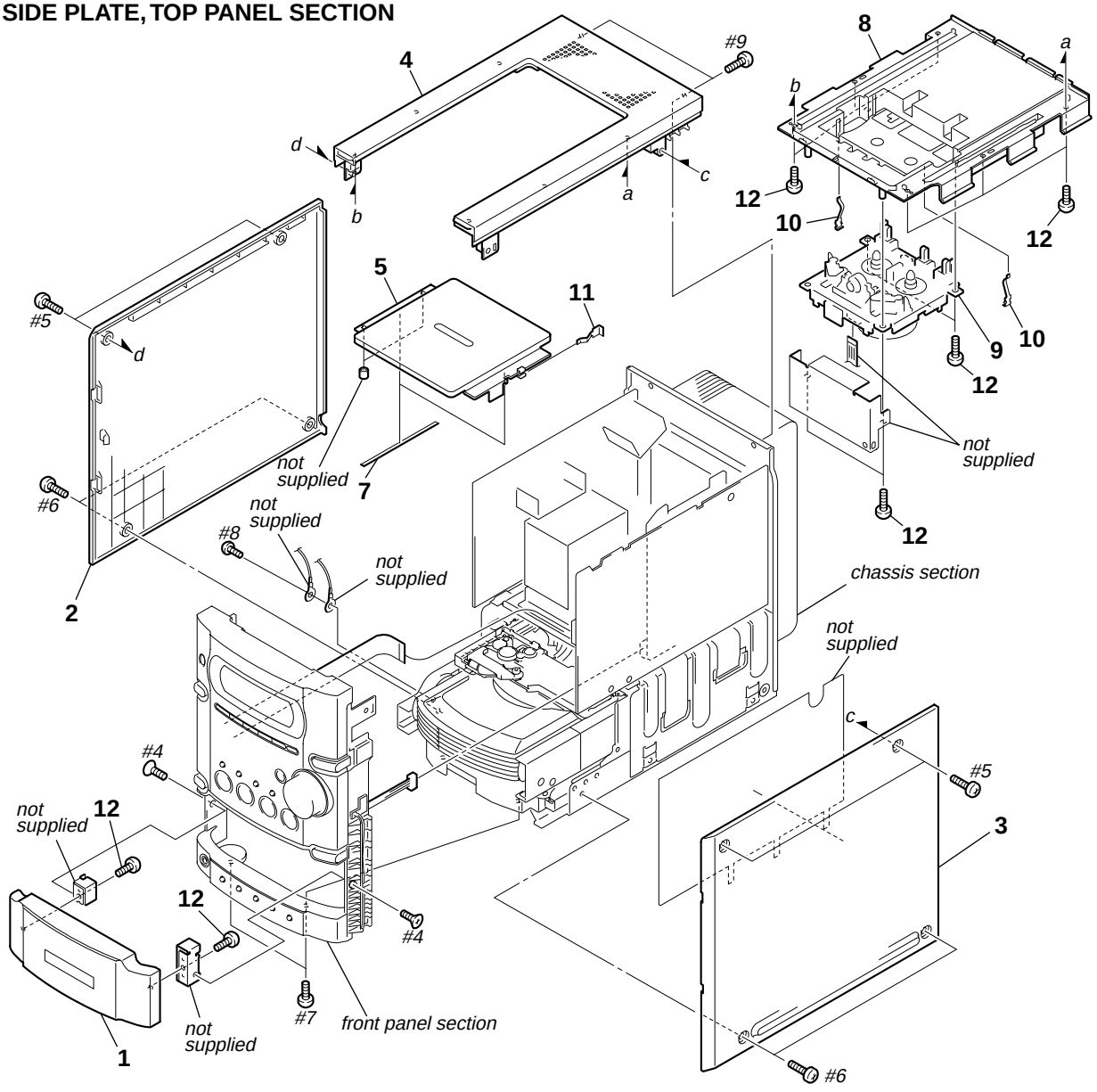
NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Abbreviation
  AUS : Australian model
  CND : Canadian model
  E3 : 240 V AC area in E model
  KR : Korean model
  MX : Mexican model
  TW : Taiwan model

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

8-1. SIDE PLATE, TOP PANEL SECTION

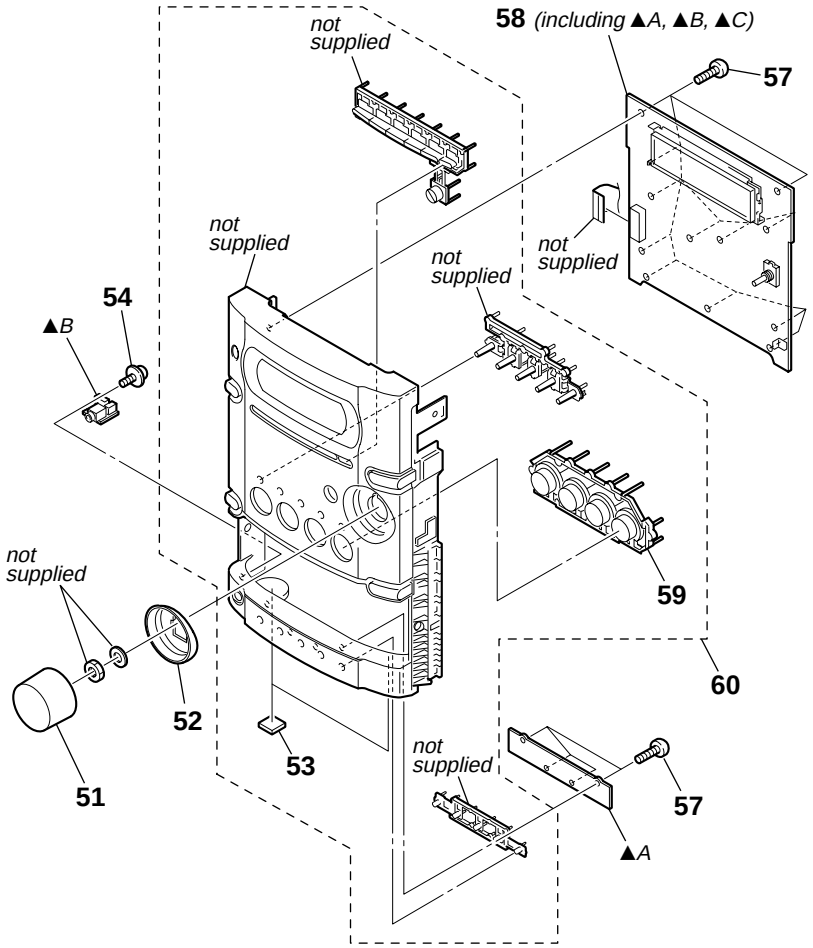


Ref. No.	Part No.	Description	Remark
1	4-253-148-01	PANEL, CD (CND)	
1	4-253-148-11	PANEL, CD (EXCEPT CND)	
2	4-253-151-01	PLATE (L), SIDE (CND)	
2	4-253-151-11	PLATE (L), SIDE (EXCEPT CND)	
3	4-253-152-01	PLATE (R), SIDE (CND)	
3	4-253-152-11	PLATE (R), SIDE (EXCEPT CND)	
4	4-253-114-01	PANEL, TOP (CND)	
4	4-253-114-11	PANEL, TOP (EXCEPT CND)	
5	X-2055-969-1	DOOR ASSY, CASSETTE	
7	2-025-481-01	SLIDE PAD	
8	4-253-112-01	PANEL, CASSETTE (CND)	

Ref. No.	Part No.	Description	Remark
8	4-253-112-11	PANEL, CASSETTE (EXCEPT CND)	
9	1-796-352-51	DECK, MECHANICAL (CMAL5Z225A)	
10	4-253-116-01	SPRING (CASSETTE), LEAF	
11	4-253-117-01	SPRING (SLIDE), LEAF	
12	4-951-620-01	SCREW (2.6X8), +BVTP	
#4	7-685-246-19	SCREW +KTP 3X8 TYPE2 NON-SLIT	
#5	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
#6	7-685-645-14	SCREW +BVTP 3X6 TYPE2 N-S	
#7	7-685-871-01	SCREW +BVTT 3X6 (S)	
#8	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#9	7-685-646-14	SCREW +BVTP 3X8 TYPE2 N-S	

8-2. FRONT PANEL SECTION

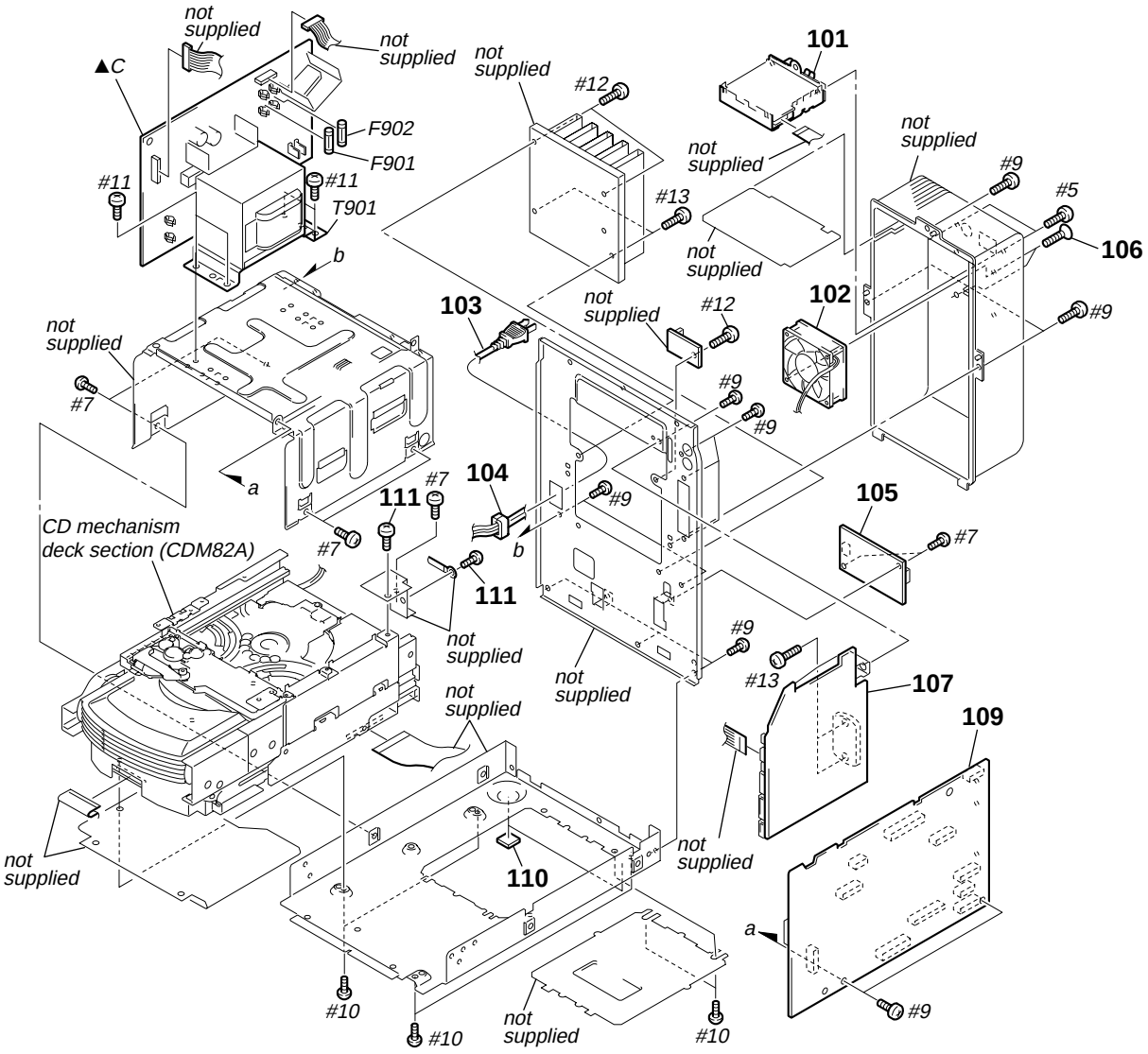
▲A : PANEL (2) board
▲B : HEADPHONE board



Ref. No.	Part No.	Description	Remark
51	4-253-142-01	KNOB (VOLUME)	
52	4-253-141-01	RING (VOLUME)	
53	4-247-752-01	FOOT, RUBBER	
54	3-921-725-01	SCREW (2.6X10), +PWH	
57	4-951-620-01	SCREW (2.6X8), +BVTP	
58	A-1060-768-A	PANEL (1) BOARD, COMPLETE (AUS) (including PANEL (2), HEADPHONE and POWER board)	
58	A-1061-300-A	PANEL (1) BOARD, COMPLETE (CND) (including PANEL (2), HEADPHONE and POWER board)	
58	A-1061-399-A	PANEL (1) BOARD, COMPLETE (AEP, UK) (including PANEL (2), HEADPHONE and POWER board)	
58	A-1061-756-A	PANEL (1) BOARD, COMPLETE (E3) (including PANEL (2), HEADPHONE and POWER board)	
58	A-1061-774-A	PANEL (1) BOARD, COMPLETE (TW) (including PANEL (2), HEADPHONE and POWER board)	
58	A-1061-790-A	PANEL (1) BOARD, COMPLETE (KR) (including PANEL (2), HEADPHONE and POWER board)	
58	A-1062-114-A	PANEL (1) BOARD, COMPLETE (MX) (including PANEL (2), HEADPHONE and POWER board)	
59	X-4956-241-1	BUTTON ASSY, FUNCTION	
60	X-2021-691-1	PANEL ASSY, FRONT (AEP, UK)	
60	X-2021-764-1	PANEL ASSY, FRONT (CND)	
60	X-2021-775-1	PANEL ASSY, FRONT (E3, MX, TW, KR, AUS)	

8-3. CHASSIS SECTION-1

▲C : POWER board



Ref. No.	Part No.	Description	Remark
101	1-693-625-11	TUNER (FM/AM) (CND)	
101	1-693-626-11	TUNER (FM/AM) (AEP)	
101	1-693-626-11	TUNER (FM/AM) (UK)	
101	1-693-628-11	TUNER (FM/AM) (E3, MX, TW, AUS)	
101	1-693-629-11	TUNER (FM/AM) (KR)	
102	1-787-103-11	FAN, DC	
⚠103	1-769-079-41	CORD, POWER (KR)	
⚠103	1-769-744-52	CORD, POWER (AEP, UK)	
⚠103	1-775-790-12	CORD, POWER (AUS)	
⚠103	1-783-531-22	CORD, POWER (CND)	
⚠103	1-827-226-11	CORD, POWER (E3, MX)	
⚠103	1-827-597-31	CORD, POWER (TW)	
* 104	3-703-571-12	BUSHING (S) (4516), CORD (E3, MX)	
104	3-703-244-00	BUSHING (2104), CORD (EXCEPT E3, MX)	
⚠105	1-468-738-11	REGULATOR, SWITCHING	

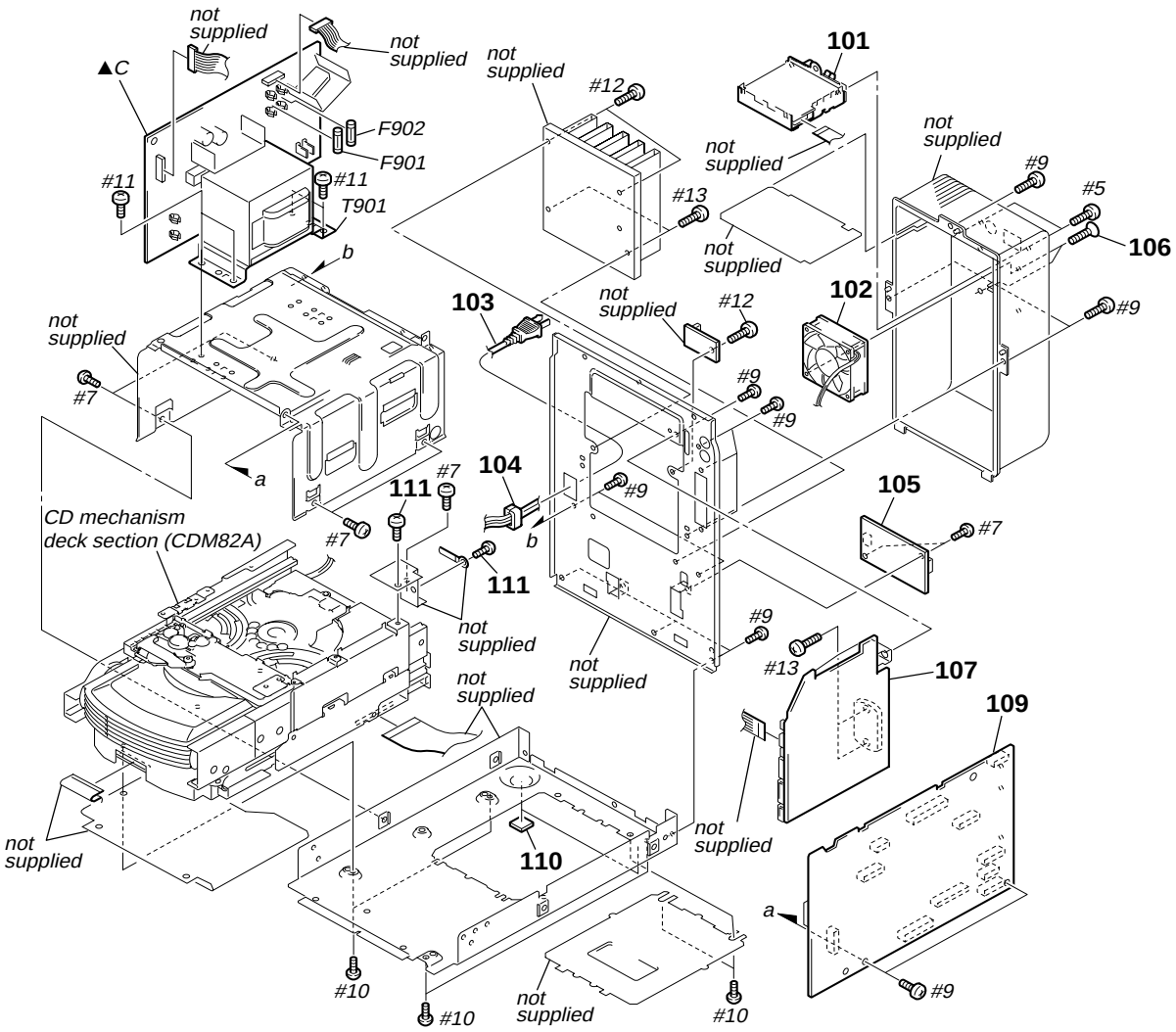
Ref. No.	Part No.	Description	Remark
106	4-671-016-01	SCREW (FAN)	
107	A-1061-313-A	AMP BOARD, COMPLETE (CND)	
107	A-1061-433-A	AMP BOARD, COMPLETE (AEP, UK)	
107	A-1061-758-A	AMP BOARD, COMPLETE (E3, MX, TW, KR, AUS)	
109	A-1061-315-A	MAIN BOARD, COMPLETE (CND)	
109	A-1061-436-A	MAIN BOARD, COMPLETE (AEP, UK)	
109	A-1061-762-A	MAIN BOARD, COMPLETE (E3, TW, AUS)	
109	A-1061-791-A	MAIN BOARD, COMPLETE (KR)	
109	A-1062-111-A	MAIN BOARD, COMPLETE (MX)	

– Continued on page 86 –

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

8-4. CHASSIS SECTION-2

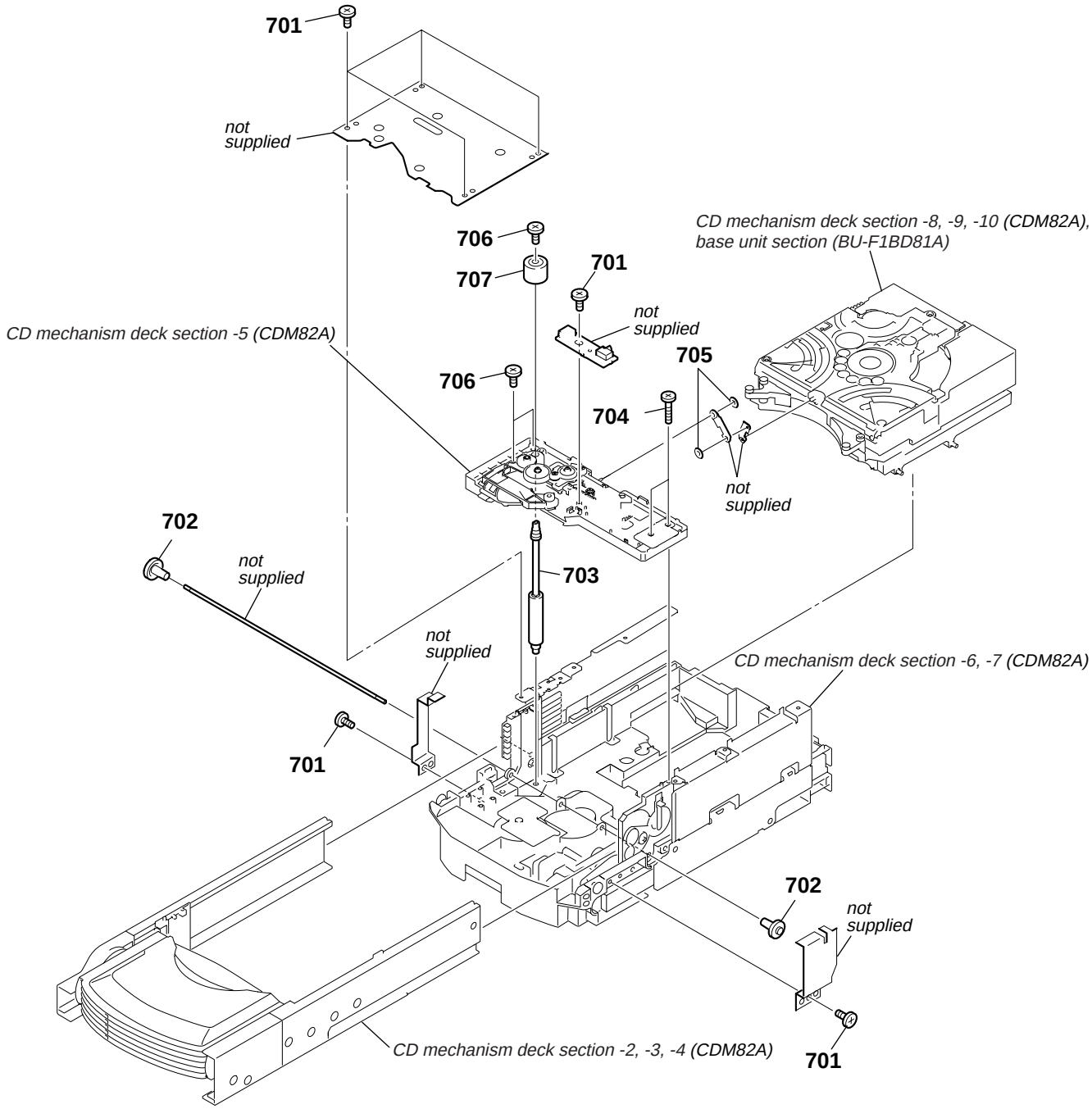
▲C : POWER board



Ref. No.	Part No.	Description	Remark
– Continued from page 85 –			
110	2-050-617-01	FOOT	
111	4-951-620-01	SCREW (2.6X8), +BVTP	
⚠F901	1-533-452-12	FUSE, GLASS TUBE (DIA. 5) (T4AL/125V)	(CND)
⚠F901	1-533-471-12	FUSE, GLASS TUBE (DIA. 5) (T4AL/250V)	(EXCEPT CND, TW)
⚠F901	1-533-453-12	FUSE, GLASS TUBE (DIA. 5) (T5AL/125V) (TW)	
⚠F902	1-533-452-12	FUSE, GLASS TUBE (DIA. 5) (T4AL/125V)	(CND)
⚠F902	1-533-471-12	FUSE, GLASS TUBE (DIA. 5) (T4AL/250V)	(EXCEPT CND, TW)
⚠F902	1-533-453-12	FUSE, GLASS TUBE (DIA. 5) (T5AL/125V) (TW)	
⚠T901	1-443-266-11	TRANSFORMER, POWER (CND)	
⚠T901	1-443-331-11	TRANSFORMER, POWER (AEP)	
⚠T901	1-443-331-11	TRANSFORMER, POWER (UK)	
⚠T901	1-443-332-11	TRANSFORMER, POWER	(E3, MX, TW, KR, AUS)
#5	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
#7	7-685-871-01	SCREW +BVTT 3X6 (S)	
#9	7-685-646-14	SCREW +BVTP 3X8 TYPE2 N-S	
#10	7-685-645-10	SCREW +BVTT 3X6	
#11	7-685-880-09	SCREW +BVTT 4X6 (S) (AEP)	
#12	7-685-648-79	SCREW +P 3X12 TYPE2 NON-SLIT	
#13	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3	

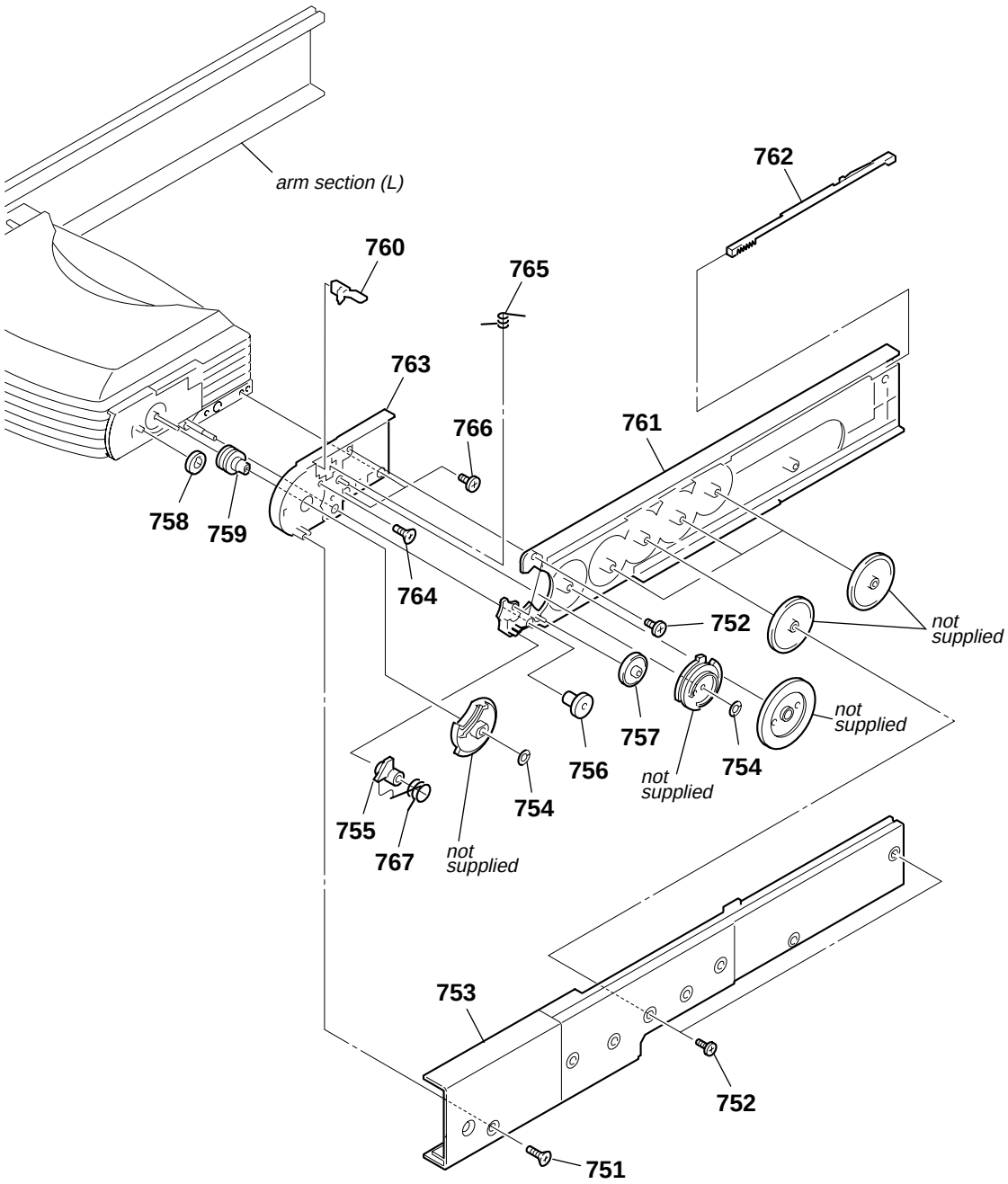
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

8-5. CD MECHANISM DECK SECTION-1 (CDM82A)



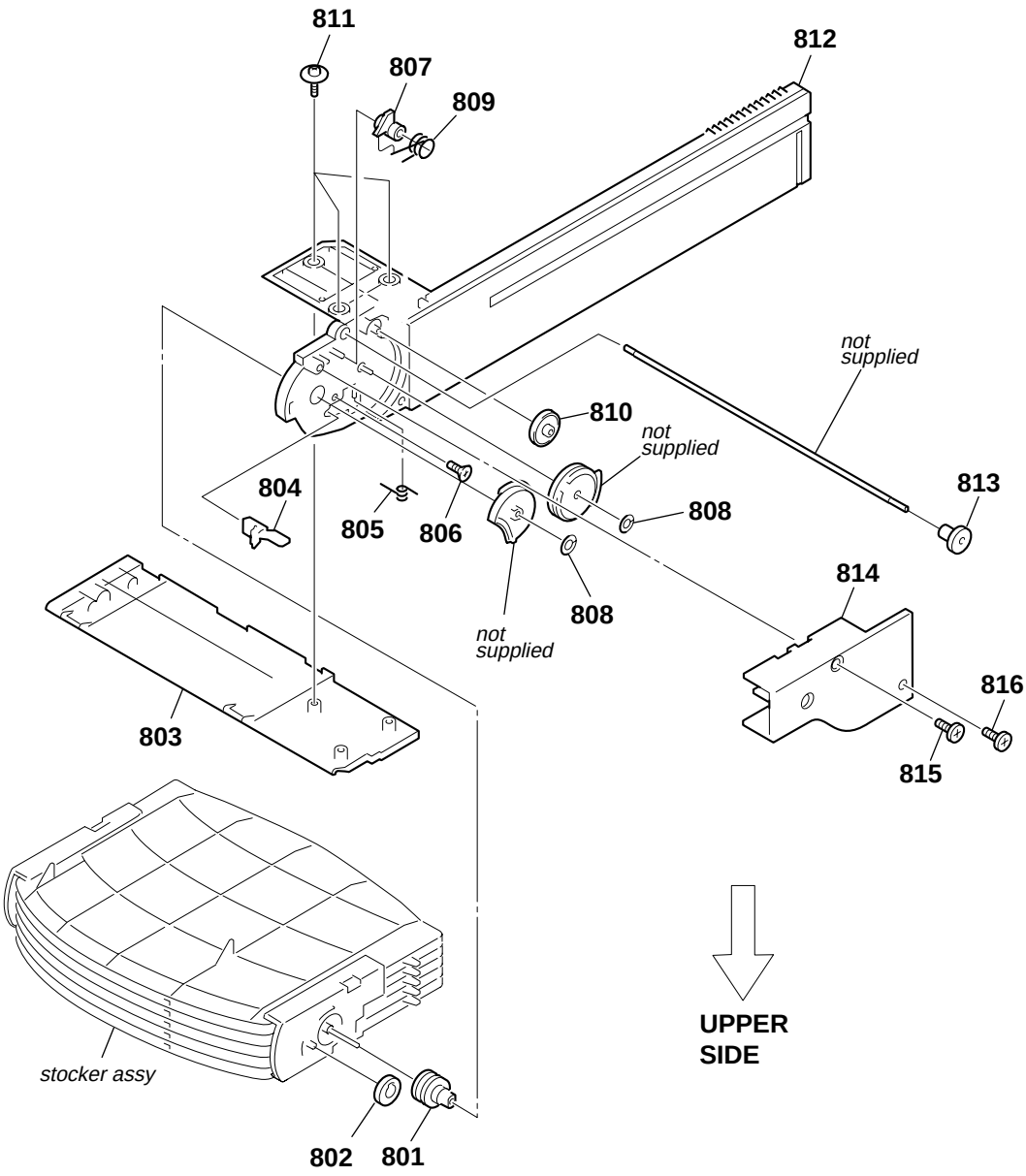
Ref. No.	Part No.	Description	Remark
701	4-218-253-31	SCREW (M2.6), +BTTP	
702	4-252-881-01	GEAR (JOINT OP)	
703	4-252-918-01	SHAFT (CONNECTION)	
704	4-253-811-01	+PTPWH 2X14	
705	4-255-299-01	WASHER (3.5)	
706	4-908-618-42	SCREW (+BTP) (2X8)	
707	4-252-853-01	GEAR (CONNECTION TP)	

8-6. CD MECHANISM DECK SECTION-2 (CDM82A)



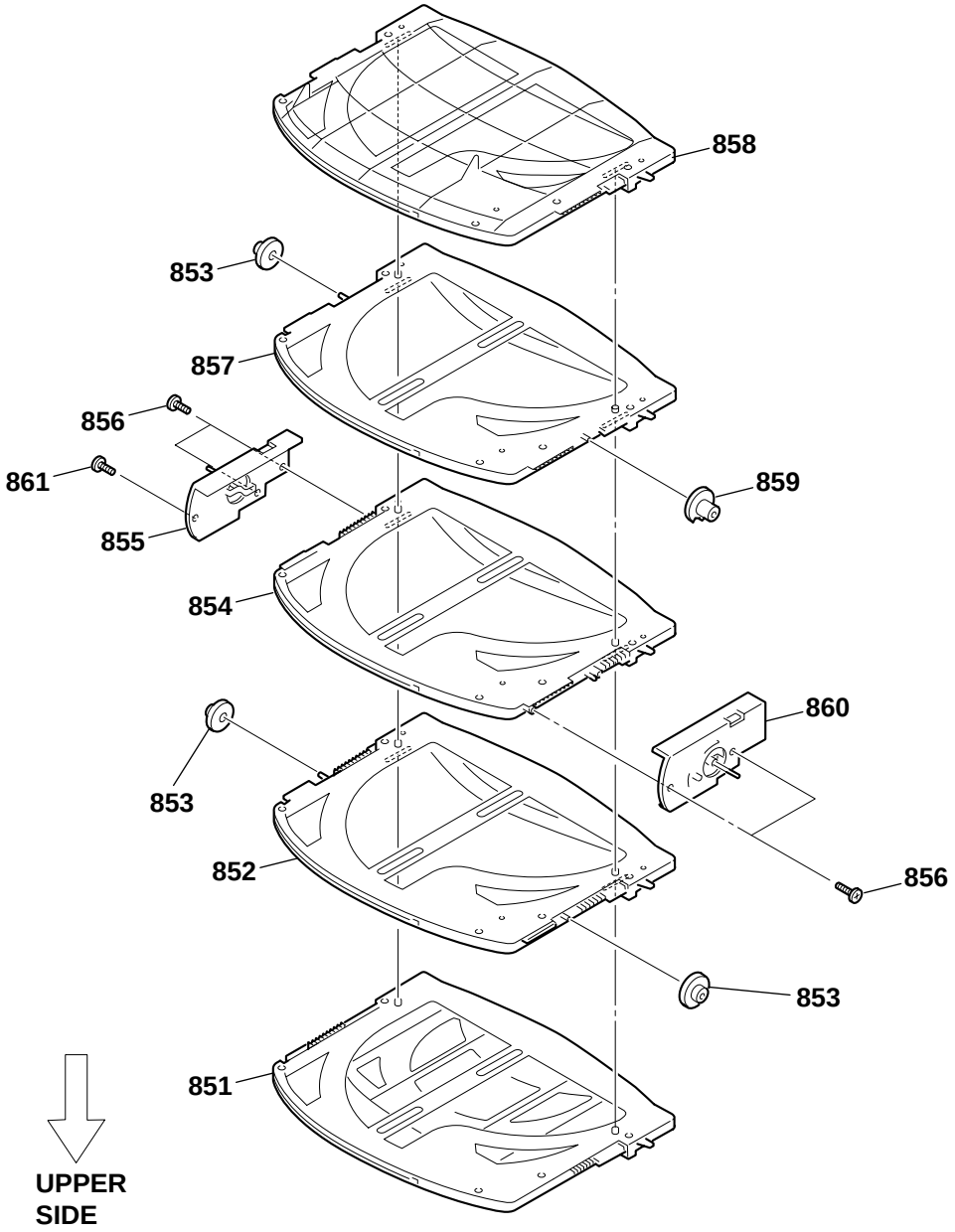
Ref. No.	Part No.	Description	Remark
751	2-641-430-31	SCREW (2.6), (+) K TAPPING	
752	4-253-344-01	SCREW (2)	
753	4-252-827-01	COVER (R)	
754	2-021-250-01	WASHER (5.5)	
755	4-255-344-01	LEVER (SUB GEAR BACK R)	
756	4-252-806-01	GEAR (STOCK JOINT)	
757	4-252-819-01	GEAR (JOINT JUST FRONT), SUB	
758	4-252-804-01	GEAR (STOCK PLANET)	
759	4-252-802-01	GEAR (STOCK SUN)	
760	4-252-816-01	LEVER (LOCK R)	
761	4-252-810-01	ARM (R)	
762	A-1060-629-A	SLIDER ASSY, SUB	
763	4-252-808-01	BASE (A), STOCK	
764	4-253-564-01	SCREW (1.7)	
765	4-252-818-01	SPRING (STOCK LOCK R)	
766	4-218-253-62	SCREW (M2.6), +BTTP	
767	2-021-898-01	SPR-T (SUB GEAR BACK R)	

8-7. CD MECHANISM DECK SECTION-3 (CDM82A)



Ref. No.	Part No.	Description	Remark
801	4-252-802-01	GEAR (STOCK SUN)	
802	4-252-804-01	GEAR (STOCK PLANET)	
803	4-253-802-01	BASE (B), STOCK	
804	4-252-815-01	LEVER (LOCK L)	
805	4-252-817-01	SPRING (STOCK LOCK L)	
806	4-253-564-01	SCREW (1.7)	
807	4-255-345-01	LEVER (SUB GEAR BACK L)	
808	2-021-250-01	WASHER (5.5)	
809	4-255-340-01	SPR-T (SUB GEAR BACK L)	
810	4-252-819-01	GEAR (JOINT JUST FRONT), SUB	
811	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING	
812	4-252-809-01	ARM (L)	
813	4-252-806-01	GEAR (STOCK JOINT)	
814	4-252-826-01	COVER (L)	
815	2-641-430-31	SCREW (2.6), (+) K TAPPING	
816	4-253-344-01	SCREW (2)	

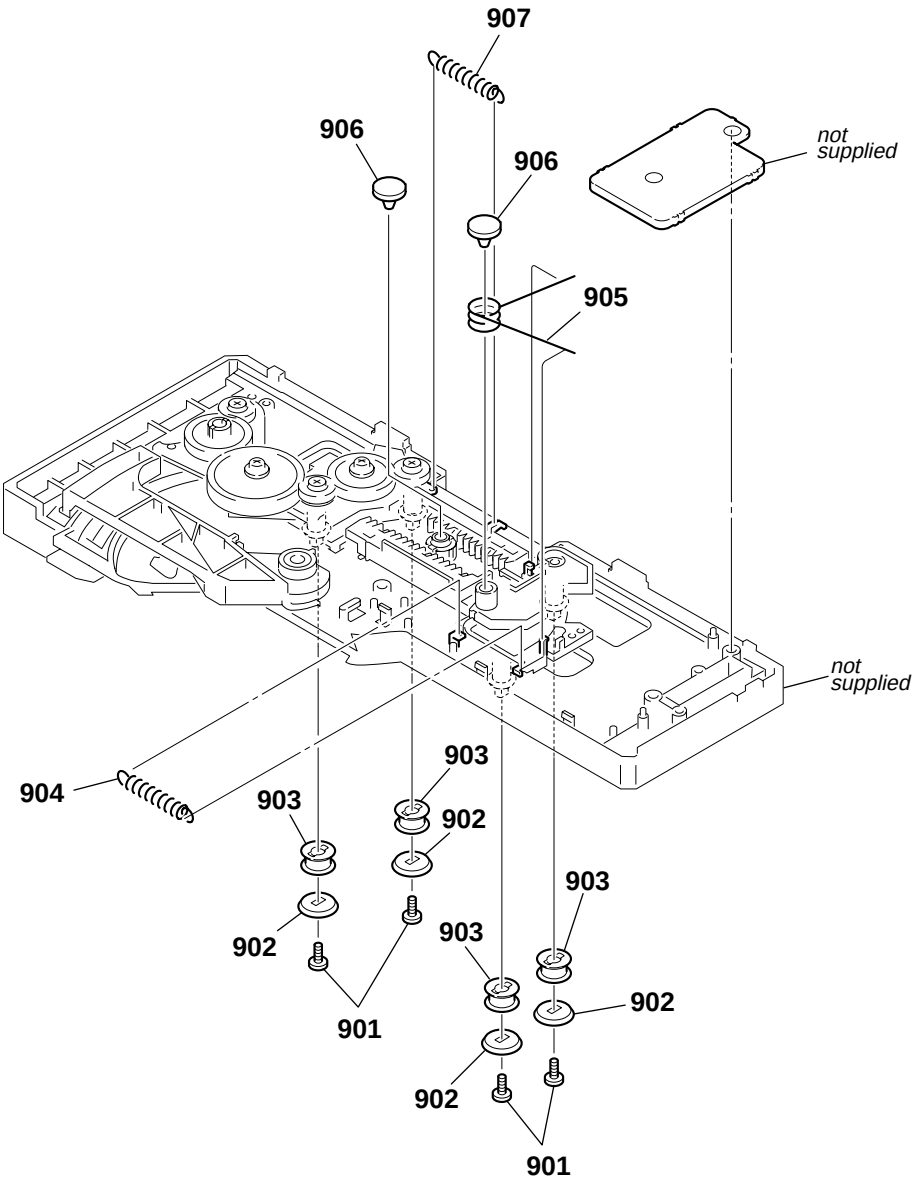
8-8. CD MECHANISM DECK SECTION-4 (CDM82A)



Ref. No.	Part No.	Description	Remark
851	A-1060-624-A	STOCKER (5) ASSY	
852	A-1060-625-A	STOCKER (4) ASSY	
853	4-252-800-01	GEAR (STOCK LOT SHORT)	
854	A-1060-626-A	STOCKER (3) ASSY	
855	4-252-798-01	BOX (L), STOCK	
856	4-253-344-01	SCREW (2)	

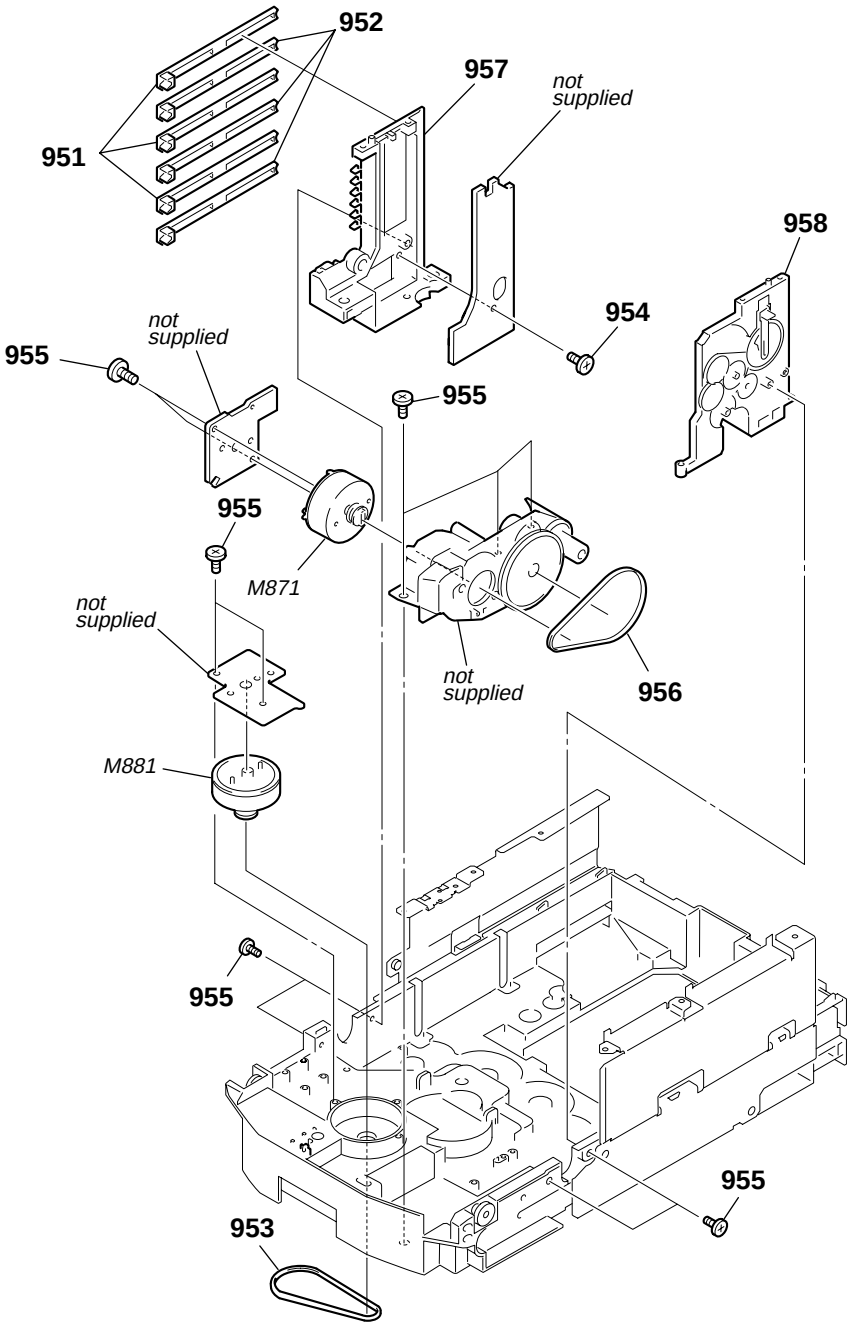
Ref. No.	Part No.	Description	Remark
857	A-1060-627-A	STOCKER (2) ASSY	
858	A-1060-628-A	STOCKER (1) ASSY	
859	4-252-801-01	GEAR (STOCK LOT LONG)	
860	4-252-799-01	BOX (R), STOCK	
861	2-149-046-01	SCREW (1.7 BOX), STEP TAPPING	

8-9. CD MECHANISM DECK SECTION-5 (CDM82A)



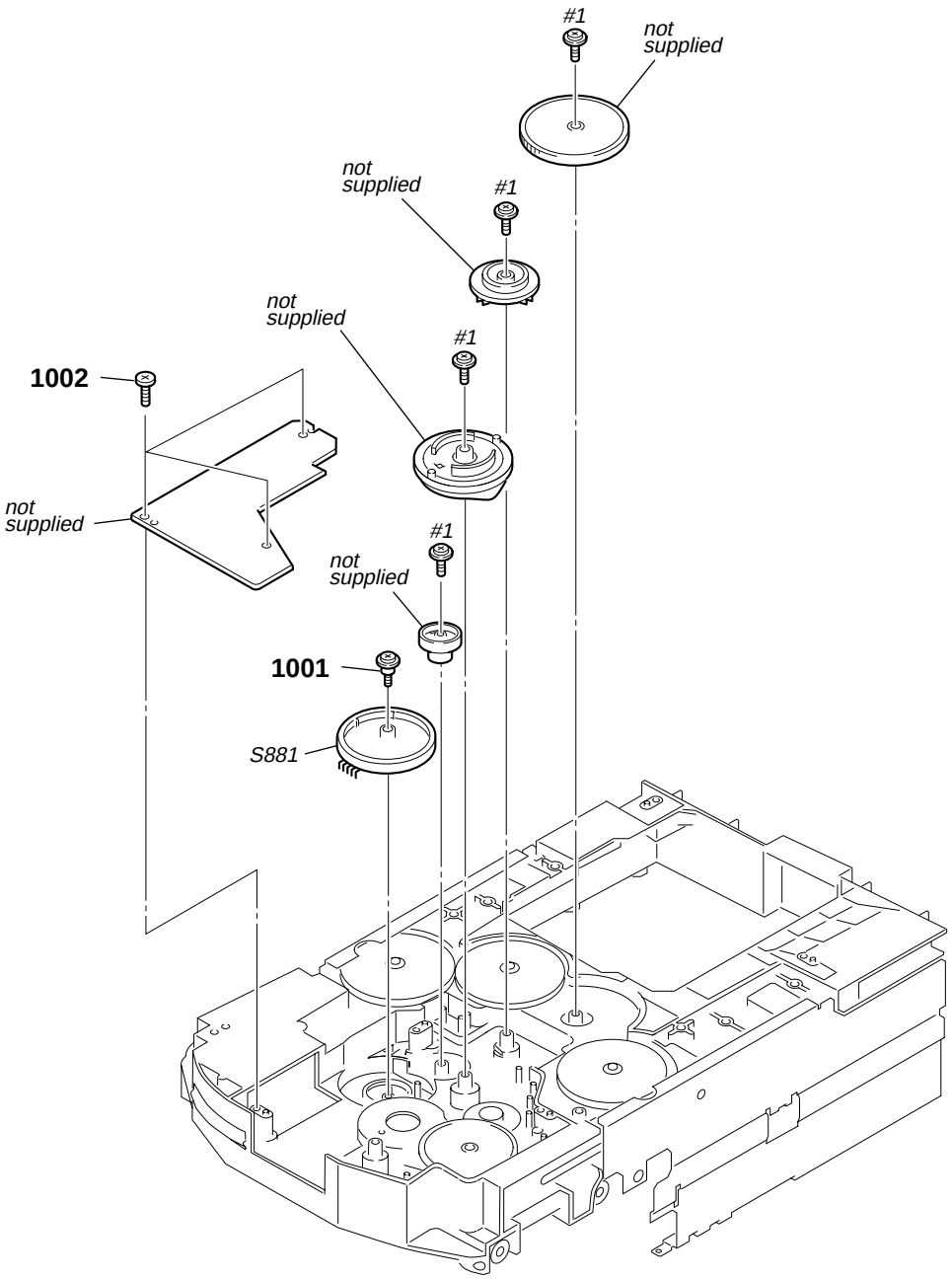
Ref. No.	Part No.	Description	Remark
901	4-253-344-01	SCREW (2)	
902	4-252-904-01	PARASOL	
903	4-252-908-01	ROLLER, RUBBER	
904	4-255-343-01	SPR-E (ROLLER SLIDER UPPER)	
905	4-255-341-01	SPR-T (8cm SLIDER R)	
906	4-252-860-01	BUSHING	
907	4-255-342-01	SPR-E (8cm SLIDER L)	

8-10. CD MECHANISM DECK SECTION-6 (CDM82A)



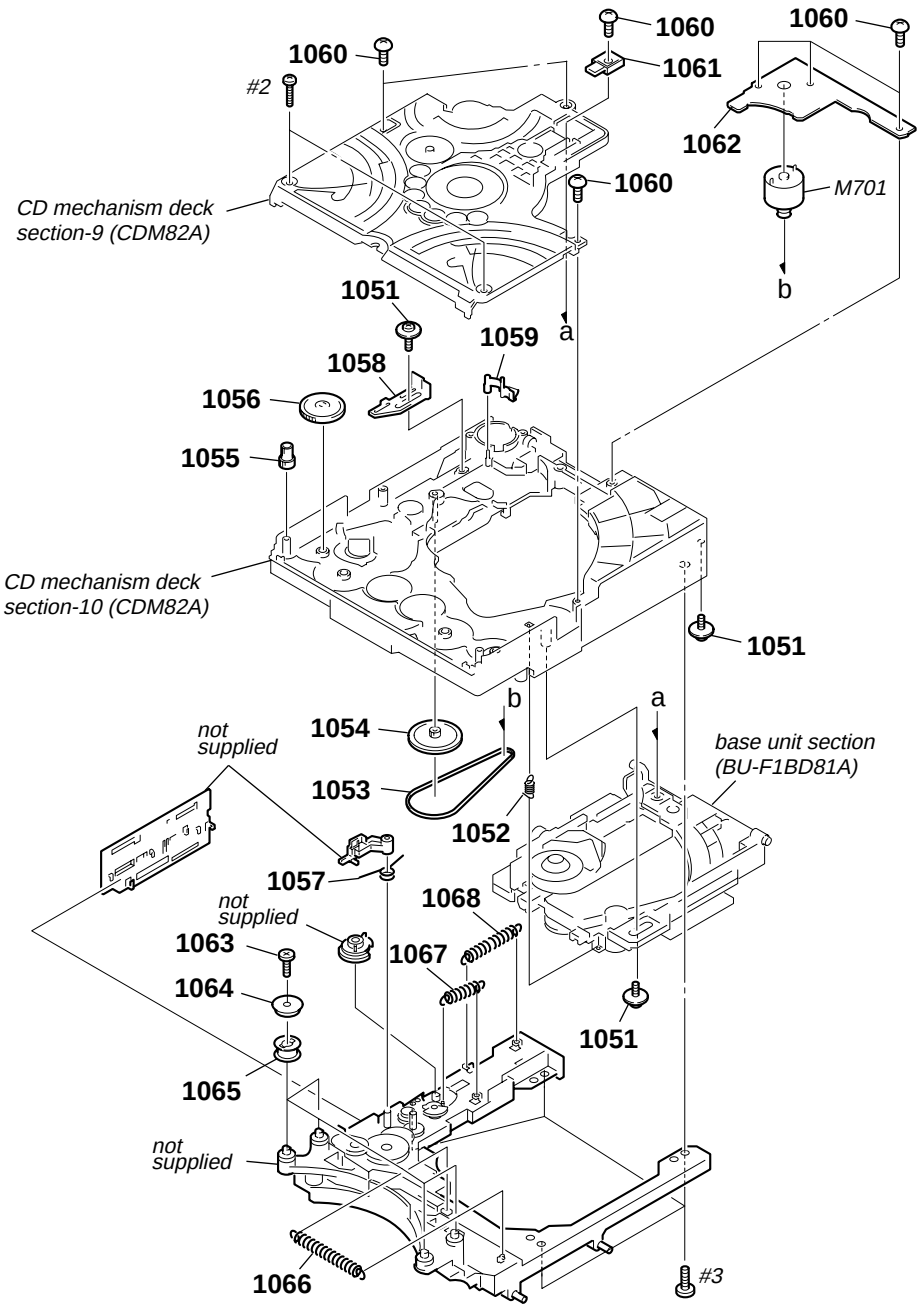
Ref. No.	Part No.	Description	Remark
951	4-252-829-01	SLIDER (PUSH POPUP1)	
952	4-252-830-01	SLIDER (PUSH POPUP2)	
953	4-252-883-01	BELT (MOT UD)	
954	4-218-253-62	SCREW (M2.6), +BTTP	
955	4-218-253-31	SCREW (M2.6), +BTTP	
956	4-252-866-01	BELT (MOT OP)	
957	4-252-828-04	CHASSIS (L), SUB	
958	4-252-832-04	CHASSIS (R), SUB	
M871	A-1060-630-A	MOTOR ASSY (LOD)	
M881	A-1060-630-A	MOTOR ASSY (ELV)	

8-11. CD MECHANISM DECK SECTION-7 (CDM82A)



Ref. No.	Part No.	Description	Remark
1001	4-239-618-02	SCREW (+PWH, 2X6), STEP TAPPING	
1002	4-218-253-62	SCREW (M2.6), +BTTP	
S881	1-478-706-11	ENCODER, ROTARY	
#1	7-685-902-21	SCREW +PTPWH 2.6X8 (TYPE2)	

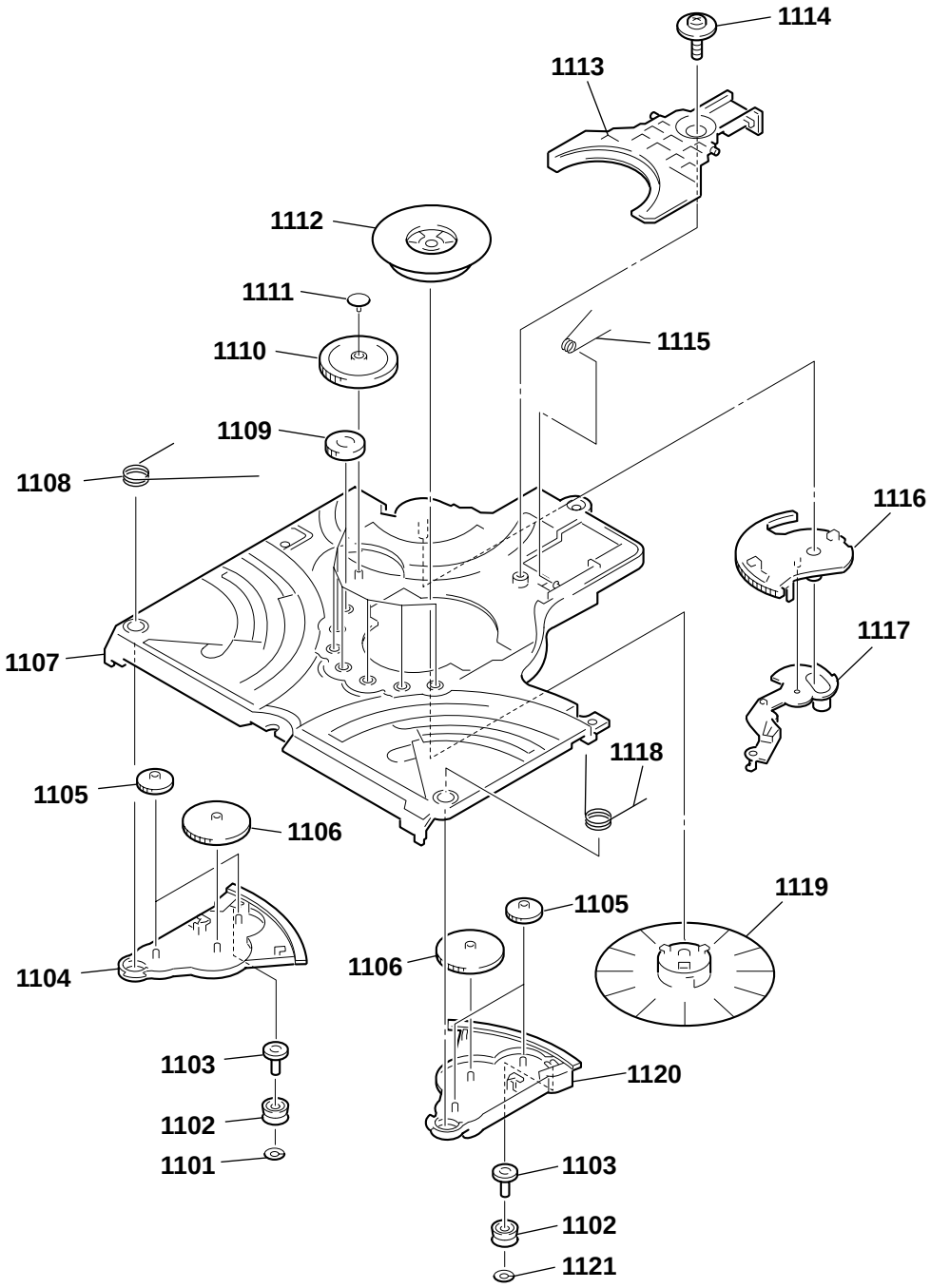
8-12. CD MECHANISM DECK SECTION-8 (CDM82A)



Ref. No.	Part No.	Description	Remark
1051	4-985-672-01	SCREW (+PTPWHM2.6), FLOATING	
1052	4-249-825-01	SPR-E, HOLDER, DOWN, 213	
1053	4-245-653-01	BELT (MOT)	
1054	4-245-662-02	PULLEY (GEAR)	
1055	4-245-646-01	GEAR (IDL-F)	
1056	4-245-644-01	GEAR (IDL-D)	
1057	4-252-895-01	SPR-T (LOCK)	
1058	4-246-203-01	LEVER (RELEASE)	
1059	4-245-630-01	LEVER (SW)	
1060	4-951-620-01	SCREW (2.6X8), +BVTP	
1061	4-245-639-01	LEVER (CL UP2)	

Ref. No.	Part No.	Description	Remark
1062	1-688-337-11	DRIVER BOARD	
1063	4-253-344-01	SCREW (2)	
1064	4-252-904-01	PARASOL	
1065	4-252-908-01	ROLLER, RUBBER	
1066	4-252-903-01	SPRING (LOWER), TENSION	
1067	4-252-898-01	SPRING, EXTENSION	
1068	4-252-899-01	SPRING, EXTENSION	
M701	X-2021-530-1	MOTOR (PULLEY) ASSY (LOD)	
#2	7-685-106-19	SCREW +P 2X10 TYPE2 NON-SLIT	
#3	7-685-648-79	SCREW +P 3X12 TYPE2 NON-SLIT	

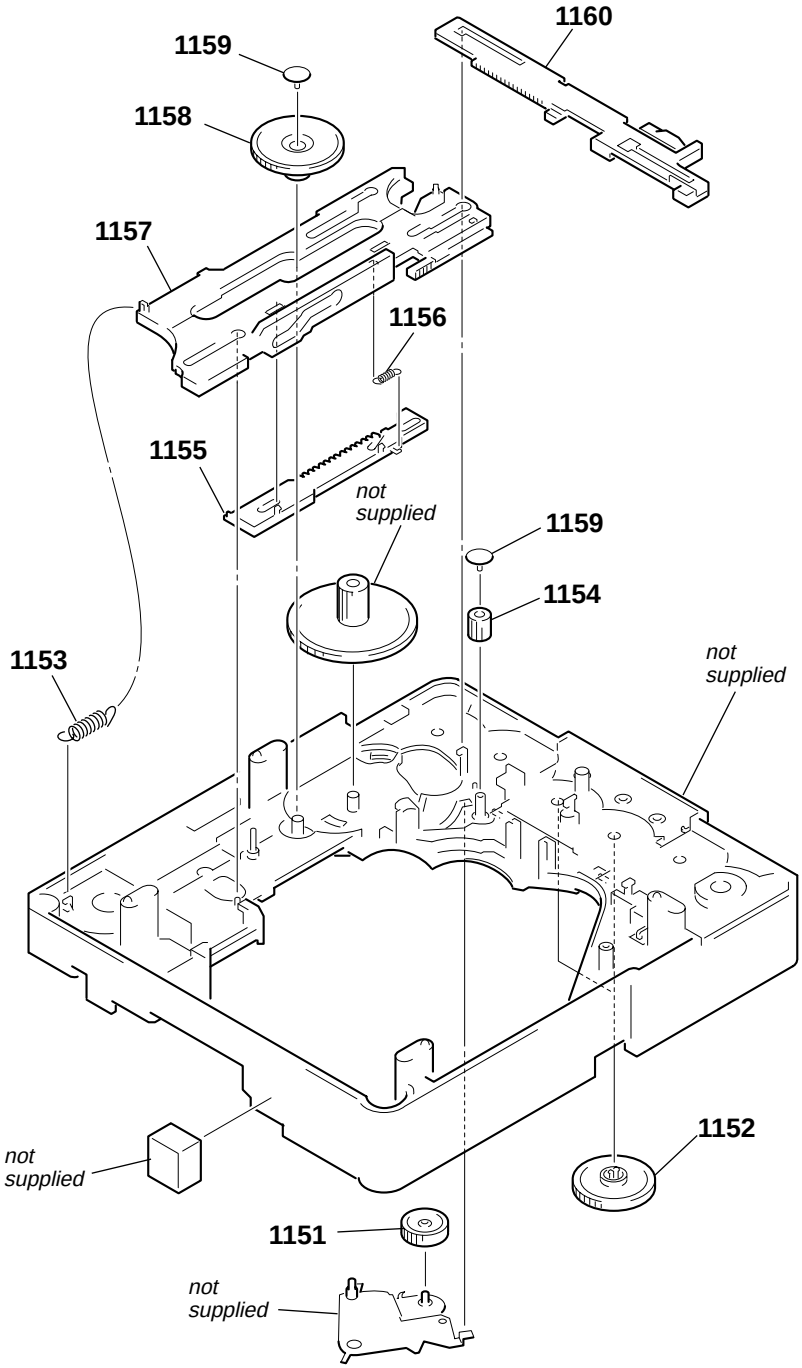
8-13. CD MECHANISM DECK SECTION-9 (CDM82A)



Ref. No.	Part No.	Description	Remark
1101	4-245-627-01	WASHER (6-2.7-0.4)	
1102	4-245-637-01	ROLLER, RUBBER	
1103	4-245-649-01	GEAR (IDL-I)	
1104	4-245-657-01	LEVER (LOADING-R)	
1105	4-245-647-01	GEAR (IDL-G)	
1106	4-245-648-01	GEAR (IDL-H)	
1107	4-245-655-01	CHASSIS (TOP)	
1108	4-245-631-01	SPT-T (LOADING-R)	
1109	4-245-650-01	GEAR (IDL-J)	
1110	4-245-651-01	GEAR (IDL-L)	
1111	4-245-640-01	GEAR (CAP)	

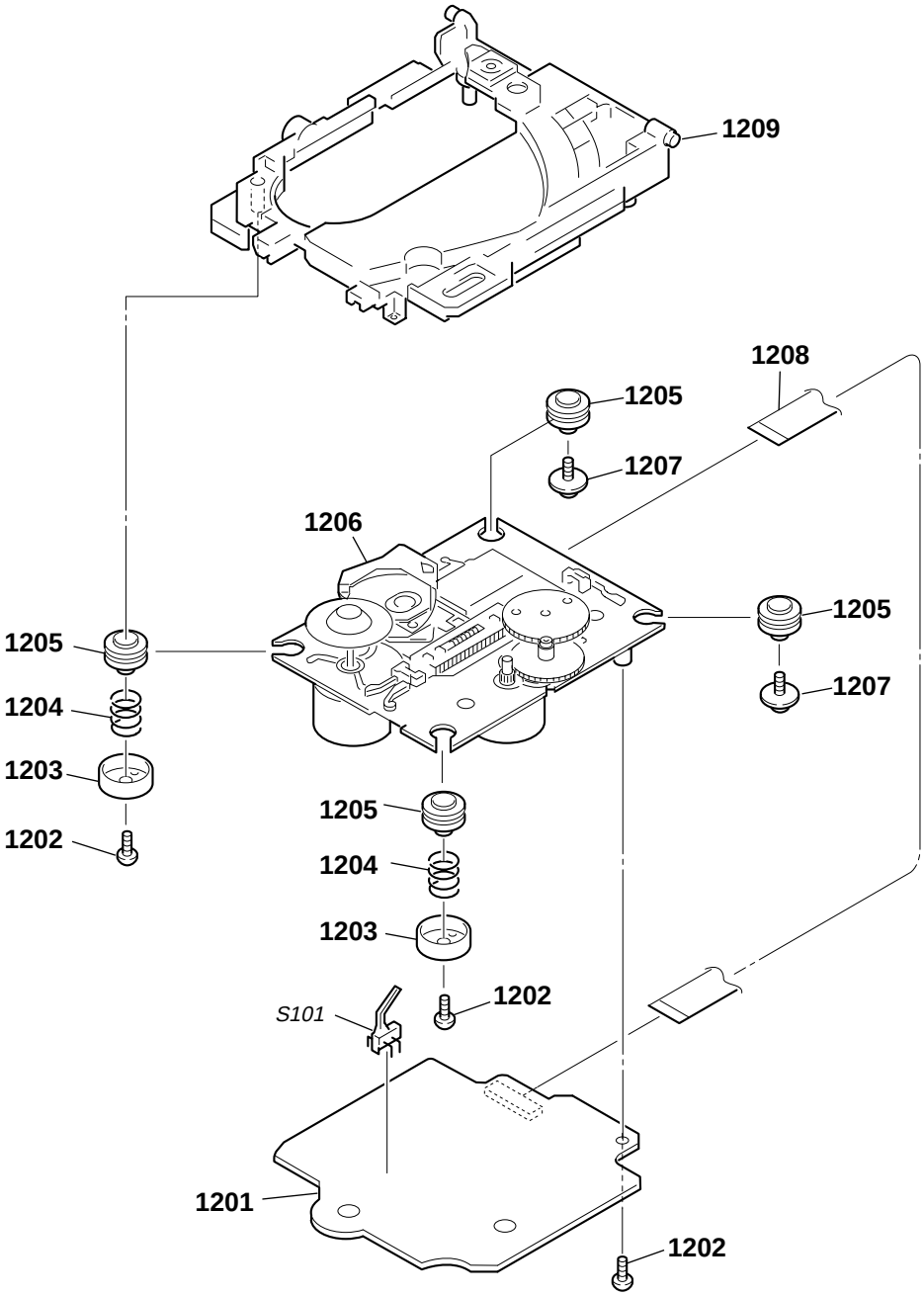
Ref. No.	Part No.	Description	Remark
1112	1-452-925-21	MAGNET ASSY	
1113	4-245-638-01	LEVER (CL UP1)	
1114	4-985-672-01	SCREW (+PTPWHM2.6), FLOATING	
1115	4-245-636-01	SPR-T CL DOWN	
1116	4-245-658-01	LEVER (DISC STOP)	
1117	4-245-659-01	LEVER (DISC SENSOR)	
1118	4-245-632-01	SPR-T (LOADING-L)	
1119	X-2021-532-1	CLAMPER 213 ASSY	
1120	4-245-656-01	LEVER (LOADING-L)	
1121	4-253-747-01	STOPPER, IDL I	

8-14. CD MECHANISM DECK SECTION-10 (CDM82A)



Ref. No.	Part No.	Description	Remark
1151	4-245-643-01	GEAR (IDL-C)	
1152	4-245-644-01	GEAR (IDL-D)	
1153	4-248-722-01	SPR-E, DIR	
1154	4-245-629-01	GEAR (BU LOCK)	
1155	4-245-814-01	LEVER (DIR FIRST)	
1156	4-245-633-01	SPR-E DIR BACK	
1157	4-245-660-01	LEVER (DIR)	
1158	4-245-641-01	GEAR (IDL-A)	
1159	4-245-640-01	GEAR (CAP)	
1160	4-245-628-01	LEVER (BU LOCK)	

8-15. BASE UNIT SECTION (BU-F1BD81A)



Ref. No.	Part No.	Description	Remark
1201	A-4751-431-A	CD BOARD, COMPLETE	
1202	4-951-620-01	SCREW (2.6X8), +BVTP	
1203	4-231-151-01	STOPPER (BU)	
1204	4-227-045-31	SPRING (INSULATOR), COIL	
1205	4-227-549-11	INSULATOR	

Ref. No.	Part No.	Description	Remark
⚠1206	8-820-244-01	OPTICAL PICK-UP (KSM-215DCP)	
1207	4-985-672-01	SCREW (+PTPWHM2.6), FLOATING	
1208	1-827-992-11	WIRE (FLAT TYPE) (16 CORE)	
1209	X-4956-146-1	HOLDER (BU215) ASSY	
S101	1-771-853-11	SWITCH, DETECTION (LIMIT)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

SECTION 9
ELECTRICAL PARTS LIST

AMP

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- CAPACITORS
  uF: µF
- COILS
  uH: µH
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . uPA. . : µPA. .
  uPB. . : µPB. . uPC. . : µPC. .
  uPD. . : µPD. .
- Abbreviation
  AUS : Australian model
  CND : Canadian model
  E3 : 240 V AC area in E model
  KR : Korean model
  MX : Mexican model
  TW : Taiwan model

When indicating parts by reference number, please include the board name.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description				Remark
	A-1061-313-A	AMP BOARD, COMPLETE (CND)				
	A-1061-433-A	AMP BOARD, COMPLETE (AEP, UK)				
	A-1061-758-A	AMP BOARD, COMPLETE (EXCEPT CND, AEP, UK)				
		**********				
		< CAPACITOR >				
C501	1-126-964-11	ELECT	10uF	20%	50V	
C502	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	
C503	1-126-967-11	ELECT	47uF	20%	50V	
C504	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	
C505	1-162-917-11	CERAMIC CHIP	15PF	5%	50V	
C506	1-126-957-11	ELECT	0.22uF	20%	50V	
C507	1-130-495-00	MYLAR	0.1uF	5%	50V	
C551	1-126-964-11	ELECT	10uF	20%	50V	
C552	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	
C553	1-126-967-11	ELECT	47uF	20%	50V	
C554	1-162-962-11	CERAMIC CHIP	470PF	10%	50V	
C555	1-162-917-11	CERAMIC CHIP	15PF	5%	50V	
C556	1-126-957-11	ELECT	0.22uF	20%	50V	
C557	1-130-495-00	MYLAR	0.1uF	5%	50V	
C603	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C604	1-126-964-11	ELECT	10uF	20%	50V	
C605	1-104-658-91	ELECT	100uF	20%	10V	
C606	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C607	1-126-964-11	ELECT	10uF	20%	50V	
C608	1-104-658-91	ELECT	100uF	20%	10V	
C609	1-126-961-11	ELECT	2.2uF	20%	50V	
C610	1-126-965-91	ELECT	22uF	20%	50V	
C611	1-126-965-91	ELECT	22uF	20%	50V	
C612	1-126-969-11	ELECT	220uF	20%	50V	
C613	1-126-964-11	ELECT	10uF	20%	50V	
C614	1-128-550-11	ELECT	2200uF	20%	50V	
C615	1-128-550-11	ELECT	2200uF	20%	50V	
C616	1-100-597-91	CERAMIC CHIP	0.1uF	10%	25V	
C617	1-130-471-00	MYLAR	0.001uF	5%	50V	
		< CONNECTOR >				
CN601	1-568-828-11	CONNECTOR, FFC 9P				
* CN602	1-564-510-11	PLUG, CONNECTOR 7P				
CN603	1-564-509-11	PLUG, CONNECTOR 6P				
CN604	1-564-506-11	PLUG, CONNECTOR 3P				
* CN605	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P				

Ref. No.	Part No.	Description				Remark
		< CONNECTOR >				
CNJ991	1-815-443-11	PIN, CONNECTOR (PWB) 2P				
		< DIODE >				
D501	8-719-991-33	DIODE 1SS133T-77				
D551	8-719-991-33	DIODE 1SS133T-77				
D603	8-719-991-33	DIODE 1SS133T-77				
D607	8-719-109-85	DIODE MTZJ-T-77-5.1B				
D608	8-719-991-33	DIODE 1SS133T-77				
D609	8-719-991-33	DIODE 1SS133T-77				
D610	8-719-991-33	DIODE 1SS133T-77				
D611	8-719-991-33	DIODE 1SS133T-77				
D612	8-719-991-33	DIODE 1SS133T-77				
		< IC >				
IC601	6-705-620-01	IC STK433-060 (EXCEPT AEP, UK)				
IC601	6-705-621-01	IC STK433-070 (AEP, UK)				
IC602	6-703-610-01	IC RT8H015C-T112-1				
		< TRANSISTOR >				
Q501	8-729-141-30	TRANSISTOR	2SC3623ATP-LK			
Q502	8-729-037-03	TRANSISTOR	KTA1266GR-AT			
Q551	8-729-141-30	TRANSISTOR	2SC3623ATP-LK			
Q552	8-729-037-03	TRANSISTOR	KTA1266GR-AT			
Q601	8-729-038-54	TRANSISTOR	KRA102S			
Q602	8-729-038-54	TRANSISTOR	KRA102S			
Q603	8-729-038-67	TRANSISTOR	KRC102S			
Q604	8-729-016-42	TRANSISTOR	KTC3199GR-TP			
Q605	8-729-037-03	TRANSISTOR	KTA1266GR-AT			
Q606	8-729-016-42	TRANSISTOR	KTC3199GR-TP			
Q607	8-729-016-42	TRANSISTOR	KTC3199GR-TP			
Q608	8-729-016-42	TRANSISTOR	KTC3199GR-TP			
Q609	8-729-016-42	TRANSISTOR	KTC3199GR-TP			
Q610	8-729-016-42	TRANSISTOR	KTC3199GR-TP			
Q611	8-729-016-42	TRANSISTOR	KTC3199GR-TP			
		< RESISTOR >				
R501	1-216-825-11	METAL CHIP	2.2K	5%	1/10W	
R502	1-216-842-11	METAL CHIP	56K	5%	1/10W	
R503	1-216-821-11	METAL CHIP	1K	5%	1/10W	
R505	1-216-864-11	SHORT CHIP	0			
R506	1-216-822-11	METAL CHIP	1.2K	5%	1/10W	(AEP, UK)

AMP **CD**

Ref. No.	Part No.	Description			Remark
R506	1-216-823-11	METAL CHIP	1.5K	5%	1/10W (EXCEPT AEP, UK)
R507	1-216-842-11	METAL CHIP	56K	5%	1/10W
R508	1-216-821-11	METAL CHIP	1K	5%	1/10W
R509	1-216-835-11	METAL CHIP	15K	5%	1/10W
⚠R510	1-220-755-11	METAL	0.22	10%	2W
R511	1-216-845-11	METAL CHIP	100K	5%	1/10W
R512	1-260-076-11	CARBON	10	5%	1/2W
R513	1-216-841-11	METAL CHIP	47K	5%	1/10W
⚠R514	1-215-890-11	METAL OXIDE	470	5%	2W
R515	1-216-845-11	METAL CHIP	100K	5%	1/10W
R551	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R552	1-216-842-11	METAL CHIP	56K	5%	1/10W
R553	1-216-821-11	METAL CHIP	1K	5%	1/10W
R555	1-216-864-11	SHORT CHIP	0		
R556	1-216-822-11	METAL CHIP	1.2K	5%	1/10W (AEP, UK)
R556	1-216-823-11	METAL CHIP	1.5K	5%	1/10W (EXCEPT AEP, UK)
R557	1-216-842-11	METAL CHIP	56K	5%	1/10W
R558	1-216-821-11	METAL CHIP	1K	5%	1/10W
R559	1-216-835-11	METAL CHIP	15K	5%	1/10W
⚠R560	1-220-755-11	METAL	0.22	10%	2W
R561	1-216-845-11	METAL CHIP	100K	5%	1/10W
R562	1-260-076-11	CARBON	10	5%	1/2W
R563	1-216-842-11	METAL CHIP	56K	5%	1/10W
⚠R564	1-215-890-11	METAL OXIDE	470	5%	2W
R565	1-216-845-11	METAL CHIP	100K	5%	1/10W
R601	1-216-833-11	METAL CHIP	10K	5%	1/10W
R602	1-216-849-11	METAL CHIP	220K	5%	1/10W
R603	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R604	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R605	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
⚠R606	1-202-972-61	FUSIBLE	1	5%	1/4W
⚠R607	1-202-972-61	FUSIBLE	1	5%	1/4W
⚠R608	1-212-881-11	FUSIBLE	100	5%	1/4W
R609	1-216-833-11	METAL CHIP	10K	5%	1/10W
R610	1-216-839-11	METAL CHIP	33K	5%	1/10W
R611	1-216-833-11	METAL CHIP	10K	5%	1/10W
R612	1-216-845-11	METAL CHIP	100K	5%	1/10W
R613	1-216-833-11	METAL CHIP	10K	5%	1/10W
R614	1-216-833-11	METAL CHIP	10K	5%	1/10W
⚠R615	1-216-455-11	METAL OXIDE	560	5%	2W
R616	1-216-833-11	METAL CHIP	10K	5%	1/10W
R617	1-216-833-11	METAL CHIP	10K	5%	1/10W
R618	1-216-835-11	METAL CHIP	15K	5%	1/10W
R619	1-216-821-11	METAL CHIP	1K	5%	1/10W
R620	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R621	1-216-845-11	METAL CHIP	100K	5%	1/10W
R622	1-216-837-11	METAL CHIP	22K	5%	1/10W
R624	1-216-821-11	METAL CHIP	1K	5%	1/10W
R625	1-216-809-11	METAL CHIP	100	5%	1/10W
R626	1-216-809-11	METAL CHIP	100	5%	1/10W
R628	1-216-853-11	METAL CHIP	470K	5%	1/10W

****

Ref. No.	Part No.	Description			Remark
	A-4751-431-A	CD BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C10	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C11	1-165-989-11	CERAMIC CHIP	10uF	10%	6.3V
C14	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C15	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C16	1-115-156-11	CERAMIC CHIP	1uF		10V
C17	1-126-246-11	ELECT CHIP	220uF	20%	4V
C18	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C111	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C112	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C113	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
C114	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C115	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C116	1-128-995-21	ELECT CHIP	100uF	20%	10V
C122	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C123	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C124	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C125	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C131	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C132	1-117-863-11	CERAMIC CHIP	0.47uF	10%	6.3V
C133	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C134	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C141	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C142	1-162-965-11	CERAMIC CHIP	0.0015uF	10%	50V
C143	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C151	1-128-995-21	ELECT CHIP	100uF	20%	10V
C161	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C162	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C163	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C171	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C172	1-162-920-11	CERAMIC CHIP	27PF	5%	50V
C174	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C181	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C182	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C183	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C184	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C185	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C186	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C194	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C195	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C196	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C201	1-128-995-21	ELECT CHIP	100uF	20%	10V
C203	1-128-995-21	ELECT CHIP	100uF	20%	10V
C209	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C210	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C211	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C212	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C213	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C251	1-162-969-11	CERAMIC CHIP	0.0068uF	10%	25V
C252	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C255	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C257	1-164-360-11	CERAMIC CHIP	0.1uF		16V

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

CD CONNECTOR

Ref. No.	Part No.	Description			Remark
C258	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C259	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C260	1-128-394-11	ELECT CHIP	220uF	20%	10V
C302	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C303	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C305	1-126-246-11	ELECT CHIP	220uF	20%	4V
C306	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C307	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C308	1-126-208-21	ELECT CHIP	47uF	20%	4V
C309	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C310	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C311	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C312	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C313	1-164-360-11	CERAMIC CHIP	0.1uF		16V
C314	1-126-208-21	ELECT CHIP	47uF	20%	4V
C315	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C316	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C317	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C318	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C320	1-216-864-11	SHORT CHIP	0		
		< CONNECTOR >			
CN101	1-770-425-11	CONNECTOR, FFC/FPC 16P			
CN201	1-818-350-11	CONNECTOR (FFC) 27P			
		< FERRITE BEAD >			
FB301	1-500-445-21	FERRITE, EMI (SMD) (2012)			
		< IC >			
IC101	8-752-425-12	IC CXD3059AR			
IC251	6-705-808-01	IC BA5947FM			
IC301	6-705-365-01	IC TC94A34FG-002			
IC303	6-705-807-01	IC BH15FB1WG			
		< TRANSISTOR >			
Q10	6-550-363-01	TRANSISTOR	2SB1690KT146		
		< RESISTOR >			
R10	1-216-791-11	METAL CHIP	3.3	5%	1/10W
R11	1-216-864-11	SHORT CHIP	0		
R12	1-216-845-11	METAL CHIP	100K	5%	1/10W
R13	1-218-446-11	METAL CHIP	1	5%	1/10W
R111	1-216-821-11	METAL CHIP	1K	5%	1/10W
R112	1-216-835-11	METAL CHIP	15K	5%	1/10W
R113	1-216-821-11	METAL CHIP	1K	5%	1/10W
R114	1-216-835-11	METAL CHIP	15K	5%	1/10W
R121	1-216-835-11	METAL CHIP	15K	5%	1/10W
R131	1-216-857-11	METAL CHIP	1M	5%	1/10W
R132	1-216-833-11	METAL CHIP	10K	5%	1/10W
R133	1-216-848-11	METAL CHIP	180K	5%	1/10W
R141	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R142	1-216-821-11	METAL CHIP	1K	5%	1/10W
R143	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R151	1-216-864-11	SHORT CHIP	0		
R161	1-216-809-11	METAL CHIP	100	5%	1/10W
R162	1-216-841-11	METAL CHIP	47K	5%	1/10W
R163	1-216-809-11	METAL CHIP	100	5%	1/10W

Ref. No.	Part No.	Description			Remark
R165	1-216-864-11	SHORT CHIP	0		
R171	1-216-817-11	METAL CHIP	470	5%	1/10W
R172	1-216-857-11	METAL CHIP	1M	5%	1/10W
R173	1-216-295-91	SHORT CHIP	0		
R181	1-216-809-11	METAL CHIP	100	5%	1/10W
R182	1-216-809-11	METAL CHIP	100	5%	1/10W
R191	1-216-864-11	SHORT CHIP	0		
R201	1-500-445-21	FERRITE, EMI (SMD) (2012)			
R203	1-216-864-11	SHORT CHIP	0		
R204	1-500-445-21	FERRITE, EMI (SMD) (2012)			
R205	1-216-864-11	SHORT CHIP	0		
R251	1-216-833-11	METAL CHIP	10K	5%	1/10W
R252	1-216-837-11	METAL CHIP	22K	5%	1/10W
R253	1-216-833-11	METAL CHIP	10K	5%	1/10W
R301	1-216-845-11	METAL CHIP	100K	5%	1/10W
R302	1-216-833-11	METAL CHIP	10K	5%	1/10W
R303	1-216-845-11	METAL CHIP	100K	5%	1/10W
R305	1-216-845-11	METAL CHIP	100K	5%	1/10W
R306	1-216-864-11	SHORT CHIP	0		
R307	1-216-833-11	METAL CHIP	10K	5%	1/10W
R313	1-216-813-11	METAL CHIP	220	5%	1/10W
R351	1-216-809-11	METAL CHIP	100	5%	1/10W
R352	1-216-809-11	METAL CHIP	100	5%	1/10W
R353	1-216-809-11	METAL CHIP	100	5%	1/10W
R354	1-216-809-11	METAL CHIP	100	5%	1/10W
R401	1-216-809-11	METAL CHIP	100	5%	1/10W
R402	1-216-809-11	METAL CHIP	100	5%	1/10W
R403	1-216-809-11	METAL CHIP	100	5%	1/10W
R404	1-216-809-11	METAL CHIP	100	5%	1/10W
R405	1-216-809-11	METAL CHIP	100	5%	1/10W
R406	1-216-809-11	METAL CHIP	100	5%	1/10W
R407	1-216-809-11	METAL CHIP	100	5%	1/10W
R408	1-216-809-11	METAL CHIP	100	5%	1/10W
R409	1-216-809-11	METAL CHIP	100	5%	1/10W
R410	1-216-809-11	METAL CHIP	100	5%	1/10W
R411	1-216-809-11	METAL CHIP	100	5%	1/10W
R412	1-216-809-11	METAL CHIP	100	5%	1/10W
R419	1-216-809-11	METAL CHIP	100	5%	1/10W
		< VIBRATOR >			
X171	1-767-408-21	VIBRATOR, CRYSTAL 16.9344MHz			
**********					
		CONNECTOR BOARD			
		**********			
		< CAPACITOR >			
C802	1-126-786-11	ELECT	47uF	20%	16V
C821	1-126-933-11	ELECT	100uF	20%	16V
C841	1-162-306-11	CERAMIC	0.01uF	30%	16V
C851	1-162-306-11	CERAMIC	0.01uF	30%	16V
		< CONNECTOR >			
CN801	1-568-864-11	CONNECTOR, FFC 21P			
CN802	1-568-951-11	PIN, CONNECTOR 2P			
CN805	1-506-468-11	PIN, CONNECTOR 3P			
* CN807	1-568-934-11	PIN, CONNECTOR 7P			
* CN808	1-568-934-11	PIN, CONNECTOR 7P			

Ref. No.	Part No.	Description			Remark
		< DIODE >			
D801	8-719-109-92	DIODE MTZJ-T-77-6.2A			
D811	8-719-921-42	DIODE MTZJ-T-77-5.1A			
		< IC >			
IC801	8-759-598-69	IC BA6956AN			
IC811	8-759-598-69	IC BA6956AN			
		< RESISTOR >			
R801	1-249-413-11	CARBON	470	5%	1/4W
R802	1-247-807-31	CARBON	100	5%	1/4W
R811	1-249-413-11	CARBON	470	5%	1/4W
R812	1-247-807-31	CARBON	100	5%	1/4W
R851	1-249-425-11	CARBON	4.7K	5%	1/4W
R852	1-249-429-11	CARBON	10K	5%	1/4W
R853	1-249-425-11	CARBON	4.7K	5%	1/4W
R854	1-249-433-11	CARBON	22K	5%	1/4W
R855	1-249-425-11	CARBON	4.7K	5%	1/4W
R856	1-249-437-11	CARBON	47K	5%	1/4W
R857	1-249-425-11	CARBON	4.7K	5%	1/4W
R858	1-249-429-11	CARBON	10K	5%	1/4W
R859	1-249-425-11	CARBON	4.7K	5%	1/4W
R860	1-249-433-11	CARBON	22K	5%	1/4W
R861	1-249-425-11	CARBON	4.7K	5%	1/4W
R862	1-249-437-11	CARBON	47K	5%	1/4W
**********					
		DISC ADDRESS SW BOARD			
		**********			
		< SWITCH >			
S861	1-771-495-01	SWITCH, PUSH			
S862	1-771-495-01	SWITCH, PUSH			
S863	1-771-495-01	SWITCH, PUSH			
S864	1-771-495-01	SWITCH, PUSH			
S865	1-771-495-01	SWITCH, PUSH			
S866	1-771-495-01	SWITCH, PUSH			
**********					
	1-688-337-11	DRIVER BOARD			
		**********			
		< CAPACITOR >			
C705	1-162-306-11	CERAMIC	0.01uF	30%	16V
C711	1-126-964-11	ELECT	10uF	20%	50V
		< CONNECTOR >			
CN701	1-785-333-11	PIN, CONNECTOR (LIGHT ANGLE) 7P			
		< DIODE >			
D701	8-719-109-92	DIODE MTZJ-T-77-6.2A			
		< IC >			
IC701	8-759-598-69	IC BA6956AN			

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R701	1-249-415-11	CARBON	680	5%	1/4W
R702	1-247-807-31	CARBON	100	5%	1/4W
		< SWITCH >			
S701	1-762-951-13	SWITCH, PUSH			
S702	1-762-951-13	SWITCH, PUSH			
**********					
		ELV MOTOR BOARD			
		**********			
**********					
		HEADPHONE BOARD			
		(included in PANEL (1) board)			
		**********			
		< CAPACITOR >			
C136	1-162-971-11	CERAMIC CHIP	0.001uF	10%	50V
C236	1-162-971-11	CERAMIC CHIP	0.001uF	10%	50V
		< CONNECTOR >			
CN312	1-815-443-11	PIN, CONNECTOR (PWB) 2P			
		< DIODE >			
D130	8-719-988-61	DIODE 1SS355TE-17			
D131	8-719-988-61	DIODE 1SS355TE-17			
		< FERRITE BEAD >			
FB122	1-500-445-21	FERRITE, EMI (SMD) (2012)			
		< JACK >			
J321	1-815-629-11	JACK (🎧)			
**********					
	A-1061-315-A	MAIN BOARD, COMPLETE (CND)			
	A-1061-436-A	MAIN BOARD, COMPLETE (AEP, UK)			
	A-1061-762-A	MAIN BOARD, COMPLETE (E3, TW, AUS)			
	A-1061-791-A	MAIN BOARD, COMPLETE (KR)			
	A-1062-111-A	MAIN BOARD, COMPLETE (MX)			
		**********			
		< CAPACITOR >			
C101	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C102	1-126-964-11	ELECT	10uF	20%	50V
C103	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C105	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C106	1-162-946-11	CERAMIC CHIP	27PF	5%	50V
C107	1-130-479-00	MYLAR	0.0047uF	5%	50V
C109	1-126-964-11	ELECT	10uF	20%	50V
C110	1-126-964-11	ELECT	10uF	20%	50V
C111	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C112	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C113	1-164-174-11	CERAMIC CHIP	0.0082uF	10%	25V
C114	1-126-960-11	ELECT	1uF	20%	50V
C115	1-126-964-11	ELECT	10uF	20%	50V
C116	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C117	1-126-964-11	ELECT	10uF	20%	50V

MAIN

Ref. No.	Part No.	Description			Remark
C118	1-126-964-11	ELECT	10uF	20%	50V
C119	1-126-964-11	ELECT	10uF	20%	50V
C122	1-130-476-00	MYLAR	0.0027uF	5%	50V
C123	1-130-499-00	MYLAR	0.22uF	5%	50V
C124	1-126-967-11	ELECT	47uF	20%	50V
C125	1-126-965-91	ELECT	22uF	20%	50V
C128	1-126-964-11	ELECT	10uF	20%	50V
C131	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C133	1-127-888-21	CERAMIC	0.1uF	10%	50V
C134	1-127-888-21	CERAMIC	0.1uF	10%	50V
C135	1-162-306-11	CERAMIC	0.01uF	30%	16V
C137	1-126-965-91	ELECT	22uF	20%	50V
C138	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C141	1-126-964-11	ELECT	10uF	20%	50V
C201	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C202	1-126-964-11	ELECT	10uF	20%	50V
C203	1-162-963-11	CERAMIC CHIP	680PF	10%	50V
C205	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C206	1-162-946-11	CERAMIC CHIP	27PF	5%	50V
C207	1-130-479-00	MYLAR	0.0047uF	5%	50V
C209	1-126-964-11	ELECT	10uF	20%	50V
C210	1-126-964-11	ELECT	10uF	20%	50V
C211	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C212	1-162-961-11	CERAMIC CHIP	330PF	10%	50V
C213	1-164-174-11	CERAMIC CHIP	0.0082uF	10%	25V
C214	1-126-960-11	ELECT	1uF	20%	50V
C215	1-126-964-11	ELECT	10uF	20%	50V
C216	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C217	1-126-964-11	ELECT	10uF	20%	50V
C218	1-126-964-11	ELECT	10uF	20%	50V
C219	1-126-964-11	ELECT	10uF	20%	50V
C222	1-130-476-00	MYLAR	0.0027uF	5%	50V
C223	1-130-499-00	MYLAR	0.22uF	5%	50V
C224	1-126-967-11	ELECT	47uF	20%	50V
C225	1-126-965-91	ELECT	22uF	20%	50V
C228	1-126-964-11	ELECT	10uF	20%	50V
C231	1-162-962-11	CERAMIC CHIP	470PF	10%	50V
C233	1-127-888-21	CERAMIC	0.1uF	10%	50V
C234	1-127-888-21	CERAMIC	0.1uF	10%	50V
C235	1-162-306-11	CERAMIC	0.01uF	30%	16V
C237	1-126-965-91	ELECT	22uF	20%	50V
C238	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C241	1-126-964-11	ELECT	10uF	20%	50V
C302	1-137-150-11	FILM	0.01uF	5%	100V
C303	1-126-961-11	ELECT	2.2uF	20%	50V
C304	1-126-964-11	ELECT	10uF	20%	50V
C305	1-126-947-11	ELECT	47uF	20%	16V
C306	1-126-964-11	ELECT	10uF	20%	50V
C307	1-130-485-00	MYLAR	0.015uF	5%	50V
C308	1-130-481-00	MYLAR	0.0068uF	5%	50V
C309	1-130-481-00	MYLAR	0.0068uF	5%	50V
C310	1-137-440-11	MYLAR	0.018uF	5%	50V
C314	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C317	1-126-965-91	ELECT	22uF	20%	50V
C318	1-126-925-91	ELECT	470uF	20%	10V
C319	1-126-925-91	ELECT	470uF	20%	10V
C320	1-126-923-91	ELECT	220uF	20%	10V
C321	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C322	1-126-923-91	ELECT	220uF	20%	10V
C324	1-126-963-11	ELECT	4.7uF	20%	50V
C325	1-126-925-91	ELECT	470uF	20%	10V
C326	1-130-483-00	MYLAR	0.01uF	5%	50V
C327	1-130-483-00	MYLAR	0.01uF	5%	50V
C328	1-126-927-11	ELECT	2200uF	20%	10V
C329	1-126-964-11	ELECT	10uF	20%	50V
C330	1-126-925-91	ELECT	470uF	20%	10V
C331	1-126-925-91	ELECT	470uF	20%	10V
C333	1-126-964-11	ELECT	10uF	20%	50V
C334	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C335	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C336	1-126-916-11	ELECT	1000uF	20%	6.3V
C337	1-127-888-21	CERAMIC	0.1uF	10%	50V
C338	1-164-160-11	CERAMIC CHIP	20PF	5%	50V
C339	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C340	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C342	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C343	1-126-927-11	ELECT	2200uF	20%	10V
C344	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C345	1-128-809-11	CERAMIC	100PF	5%	50V
C346	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C347	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C348	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C349	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C350	1-128-809-11	CERAMIC	100PF	5%	50V
C351	1-128-809-11	CERAMIC	100PF	5%	50V
C352	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C353	1-126-926-11	ELECT	1000uF	20%	10V
C354	1-128-809-11	CERAMIC	100PF	5%	50V
C355	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C356	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C357	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C358	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C359	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C362	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C367	1-126-926-11	ELECT	1000uF	20%	10V
C368	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C371	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C372	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C373	1-126-947-11	ELECT	47uF	20%	16V
C374	1-126-964-11	ELECT	10uF	20%	50V
C391	1-127-888-21	CERAMIC	0.1uF	10%	50V
C393	1-127-888-21	CERAMIC	0.1uF	10%	50V
C394	1-127-888-21	CERAMIC	0.1uF	10%	50V
C395	1-126-927-11	ELECT	2200uF	20%	10V
C396	1-164-156-11	CERAMIC CHIP	0.1uF		25V
C397	1-164-156-11	CERAMIC CHIP	0.1uF		25V

< CONNECTOR >

*	CN301	1-564-511-11	PLUG, CONNECTOR 8P
*	CN303	1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P
	CN304	1-779-295-11	CONNECTOR, FFC (LIF (NON-ZIF)) 27P
	CN305	1-568-830-11	CONNECTOR, FFC 11P (EXCEPT AEP, UK)
	CN305	1-784-776-11	CONNECTOR, FFC 15P (AEP, UK)
	CN306	1-568-828-11	CONNECTOR, FFC 9P
*	CN307	1-564-515-11	PLUG, CONNECTOR 12P

MAIN

Ref. No.	Part No.	Description	Remark
* CN308	1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P	
CN310	1-784-778-11	CONNECTOR, FFC 19P	
CN313	1-564-506-11	PLUG, CONNECTOR 3P	
CN315	1-568-838-11	CONNECTOR, FFC 21P	
CN317	1-568-826-11	CONNECTOR, FFC 7P	
		< DIODE >	
D301	8-719-991-33	DIODE 1SS133T-77	
D302	8-719-991-33	DIODE 1SS133T-77	
D303	8-719-991-33	DIODE 1SS133T-77	
D304	8-719-991-33	DIODE 1SS133T-77	
D305	8-719-991-33	DIODE 1SS133T-77	
D306	8-719-991-33	DIODE 1SS133T-77	
D307	8-719-991-33	DIODE 1SS133T-77	
D308	8-719-991-33	DIODE 1SS133T-77	
D309	8-719-991-33	DIODE 1SS133T-77	
D310	6-500-522-01	DIODE 10EDB40-TA1B2	
D311	6-500-522-01	DIODE 10EDB40-TA1B2	
D312	6-500-522-01	DIODE 10EDB40-TA1B2	
D313	8-719-991-33	DIODE 1SS133T-77	
D317	8-719-991-33	DIODE 1SS133T-77	
D318	8-719-991-33	DIODE 1SS133T-77	
D319	8-719-991-33	DIODE 1SS133T-77	
D325	8-719-991-33	DIODE 1SS133T-77	
D326	8-719-991-33	DIODE 1SS133T-77	
D327	8-719-991-33	DIODE 1SS133T-77	
D328	8-719-921-88	DIODE MTZJ-T-77-13B	
D329	8-719-988-61	DIODE 1SS355TE-17	
D330	8-719-988-61	DIODE 1SS355TE-17	
D331	6-500-522-01	DIODE 10EDB40-TA1B2	
		< EARTH TERMINAL >	
EP200	1-537-770-21	TERMINAL BOARD, GROUND	
		< FERRITE BEAD >	
FB301	1-412-473-21	INDUCTOR (SMALL TYPE)	
FB302	1-216-864-11	SHORT CHIP 0	
FB303	1-216-864-11	SHORT CHIP 0	
FB304	1-216-864-11	SHORT CHIP 0	
FB305	1-216-864-11	SHORT CHIP 0	
FB306	1-216-864-11	SHORT CHIP 0	
FB307	1-500-445-21	FERRITE, EMI (SMD) (2012)	
FB308	1-500-445-21	FERRITE, EMI (SMD) (2012)	
FB309	1-500-445-21	FERRITE, EMI (SMD) (2012)	
		< IC >	
IC301	8-759-508-69	IC BA3126N	
IC302	6-705-622-01	IC BD3402KS2	
IC304	8-759-701-59	IC TA7809S	
IC305	6-801-402-01	IC BD4729GTR	
IC306	6-804-180-01	IC M3062CMEN-A02FPU0	
		< JACK >	
J301	1-764-593-21	JACK 2P (MD/VIDEO)	
		< JUMPER RESISTOR >	
JW200	1-216-864-11	SHORT CHIP 0	
JW241	1-216-864-11	SHORT CHIP 0	
JW302	1-216-864-11	SHORT CHIP 0	
		< COIL >	
L102	1-422-009-13	COIL, AIR-CORE	
L202	1-422-009-13	COIL, AIR-CORE	
L302	1-410-521-11	INDUCTOR 100uH	
		< TRANSISTOR >	
Q102	8-729-107-43	TRANSISTOR 2SC3624-T1L1718	
Q202	8-729-107-43	TRANSISTOR 2SC3624-T1L1718	
Q301	8-729-037-16	TRANSISTOR KRA103M-AT	
Q302	8-729-036-58	TRANSISTOR KRC102M-AT	
Q303	8-729-142-46	TRANSISTOR 2SC2001TP-LK	
Q304	8-729-142-46	TRANSISTOR 2SC2001TP-LK	
Q305	8-729-801-93	TRANSISTOR 2SD1387-34-TP	
Q306	8-729-037-03	TRANSISTOR KTA1266GR-AT	
Q307	8-729-036-58	TRANSISTOR KRC102M-AT	
Q308	8-729-037-13	TRANSISTOR KTA1271Y	
Q309	8-729-054-16	TRANSISTOR KRC402-RTK	
Q310	8-729-037-13	TRANSISTOR KTA1271Y	
Q311	8-729-054-16	TRANSISTOR KRC402-RTK	
Q312	8-729-040-76	TRANSISTOR KTA1273-Y-AT	
Q313	8-729-038-67	TRANSISTOR KRC102S	
Q314	8-729-016-42	TRANSISTOR KTC3199GR-TP	
Q315	8-729-040-76	TRANSISTOR KTA1273-Y-AT	
Q316	8-729-016-42	TRANSISTOR KTC3199GR-TP	
Q317	8-729-038-54	TRANSISTOR KRA102S	
Q318	8-729-038-67	TRANSISTOR KRC102S	
Q319	8-729-040-76	TRANSISTOR KTA1273-Y-AT	
Q320	8-729-038-67	TRANSISTOR KRC102S	
Q321	8-729-036-58	TRANSISTOR KRC102M-AT	
Q322	8-729-037-13	TRANSISTOR KTA1271Y	
Q323	8-729-038-67	TRANSISTOR KRC102S	
Q324	8-729-028-54	TRANSISTOR KTC3205-Y-AT	
		< RESISTOR >	
R101	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R102	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R103	1-216-830-11	METAL CHIP 5.6K 5% 1/10W	
R104	1-216-833-11	METAL CHIP 10K 5% 1/10W	
R105	1-216-825-11	METAL CHIP 2.2K 5% 1/10W	
R106	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R107	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R108	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R109	1-216-851-11	METAL CHIP 330K 5% 1/10W	
R110	1-216-853-11	METAL CHIP 470K 5% 1/10W	
R111	1-216-812-11	METAL CHIP 180 5% 1/10W	
R112	1-216-830-11	METAL CHIP 5.6K 5% 1/10W	
R113	1-216-847-11	METAL CHIP 150K 5% 1/10W	
R114	1-216-827-11	METAL CHIP 3.3K 5% 1/10W	
R118	1-216-829-11	METAL CHIP 4.7K 5% 1/10W	
R120	1-216-841-11	METAL CHIP 47K 5% 1/10W	
R122	1-260-076-11	CARBON 10 5% 1/2W	
R123	1-216-821-11	METAL CHIP 1K 5% 1/10W	
R124	1-216-845-11	METAL CHIP 100K 5% 1/10W	
R126	1-249-429-11	CARBON 10K 5% 1/4W	

MAIN

Ref. No.	Part No.	Description			Remark
R127	1-216-821-11	METAL CHIP	1K	5%	1/10W
R128	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R201	1-216-821-11	METAL CHIP	1K	5%	1/10W
R202	1-216-841-11	METAL CHIP	47K	5%	1/10W
R203	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R204	1-216-833-11	METAL CHIP	10K	5%	1/10W
R205	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R206	1-216-841-11	METAL CHIP	47K	5%	1/10W
R207	1-216-845-11	METAL CHIP	100K	5%	1/10W
R208	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R209	1-216-851-11	METAL CHIP	330K	5%	1/10W
R210	1-216-853-11	METAL CHIP	470K	5%	1/10W
R211	1-216-812-11	METAL CHIP	180	5%	1/10W
R212	1-216-830-11	METAL CHIP	5.6K	5%	1/10W
R213	1-216-847-11	METAL CHIP	150K	5%	1/10W
R214	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R218	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R220	1-216-841-11	METAL CHIP	47K	5%	1/10W
R222	1-260-076-11	CARBON	10	5%	1/2W
R223	1-216-821-11	METAL CHIP	1K	5%	1/10W
R224	1-216-845-11	METAL CHIP	100K	5%	1/10W
R226	1-249-429-11	CARBON	10K	5%	1/4W
R227	1-216-821-11	METAL CHIP	1K	5%	1/10W
R228	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R301	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
⚠R302	1-212-851-00	FUSIBLE	5.6	5%	1/4W
⚠R303	1-212-851-00	FUSIBLE	5.6	5%	1/4W
R304	1-216-836-11	METAL CHIP	18K	5%	1/10W
R305	1-216-836-11	METAL CHIP	18K	5%	1/10W
R306	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R307	1-218-867-11	METAL CHIP	6.8K	5%	1/10W
R308	1-216-837-11	METAL CHIP	22K	5%	1/10W
R309	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R310	1-216-833-11	METAL CHIP	10K	5%	1/10W
R311	1-216-841-11	METAL CHIP	47K	5%	1/10W
R312	1-216-821-11	METAL CHIP	1K	5%	1/10W
R314	1-216-841-11	METAL CHIP	47K	5%	1/10W
R315	1-216-821-11	METAL CHIP	1K	5%	1/10W
R318	1-249-429-11	CARBON	10K	5%	1/4W
R319	1-216-837-11	METAL CHIP	22K	5%	1/10W
R320	1-216-841-11	METAL CHIP	47K	5%	1/10W
R321	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R322	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R323	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R324	1-216-833-11	METAL CHIP	10K	5%	1/10W
R325	1-249-429-11	CARBON	10K	5%	1/4W
R326	1-216-845-11	METAL CHIP	100K	5%	1/10W
R327	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R328	1-216-833-11	METAL CHIP	10K	5%	1/10W
R329	1-216-845-11	METAL CHIP	100K	5%	1/10W
R330	1-216-813-11	METAL CHIP	220	5%	1/10W
R331	1-216-833-11	METAL CHIP	10K	5%	1/10W
R332	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R333	1-216-837-11	METAL CHIP	22K	5%	1/10W
R334	1-216-841-11	METAL CHIP	47K	5%	1/10W
R335	1-249-429-11	CARBON	10K	5%	1/4W
R336	1-216-809-11	METAL CHIP	100	5%	1/10W
R337	1-216-809-11	METAL CHIP	100	5%	1/10W

Ref. No.	Part No.	Description			Remark
R339	1-216-841-11	METAL CHIP	47K	5%	1/10W
R340	1-216-841-11	METAL CHIP	47K	5%	1/10W
R341	1-216-841-11	METAL CHIP	47K	5%	1/10W
R342	1-216-841-11	METAL CHIP	47K	5%	1/10W
R343	1-216-841-11	METAL CHIP	47K	5%	1/10W
R344	1-216-841-11	METAL CHIP	47K	5%	1/10W
R345	1-216-841-11	METAL CHIP	47K	5%	1/10W
R346	1-216-841-11	METAL CHIP	47K	5%	1/10W
R347	1-216-841-11	METAL CHIP	47K	5%	1/10W
R350	1-249-425-11	CARBON	4.7K	5%	1/4W
R358	1-216-841-11	METAL CHIP	47K	5%	1/10W
R359	1-216-841-11	METAL CHIP	47K	5%	1/10W
R360	1-216-841-11	METAL CHIP	47K	5%	1/10W
R361	1-249-429-11	CARBON	10K	5%	1/4W
R362	1-249-429-11	CARBON	10K	5%	1/4W
R363	1-216-833-11	METAL CHIP	10K	5%	1/10W
R364	1-249-425-11	CARBON	4.7K	5%	1/4W
R365	1-216-819-11	METAL CHIP	680	5%	1/10W
R366	1-249-425-11	CARBON	4.7K	5%	1/4W (CND, MX)
R367	1-216-821-11	METAL CHIP	1K	5%	1/10W (MX)
R367	1-216-825-11	METAL CHIP	2.2K	5%	1/10W (CND)
R367	1-216-864-11	SHORT CHIP	0 (AEP, UK)		
R368	1-247-843-11	CARBON	3.3K	5%	1/4W
R369	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R370	1-216-827-11	METAL CHIP	3.3K	5%	1/10W
R372	1-249-437-11	CARBON	47K	5%	1/4W
R373	1-249-437-11	CARBON	47K	5%	1/4W
R374	1-216-841-11	METAL CHIP	47K	5%	1/10W
R375	1-216-821-11	METAL CHIP	1K	5%	1/10W
R377	1-216-833-11	METAL CHIP	10K	5%	1/10W (EXCEPT AEP, UK)
R378	1-216-833-11	METAL CHIP	10K	5%	1/10W (EXCEPT AEP, UK)
R379	1-216-833-11	METAL CHIP	10K	5%	1/10W
R381	1-216-841-11	METAL CHIP	47K	5%	1/10W
R382	1-216-821-11	METAL CHIP	1K	5%	1/10W
R390	1-216-841-11	METAL CHIP	47K	5%	1/10W
R391	1-216-841-11	METAL CHIP	47K	5%	1/10W
R393	1-216-841-11	METAL CHIP	47K	5%	1/10W
R394	1-216-821-11	METAL CHIP	1K	5%	1/10W
R395	1-216-821-11	METAL CHIP	1K	5%	1/10W
R396	1-216-839-11	METAL CHIP	33K	5%	1/10W
R397	1-216-817-11	METAL CHIP	470	5%	1/10W
R401	1-216-809-11	METAL CHIP	100	5%	1/10W
R402	1-216-809-11	METAL CHIP	100	5%	1/10W
R404	1-216-833-11	METAL CHIP	10K	5%	1/10W
R405	1-216-809-11	METAL CHIP	100	5%	1/10W
R406	1-216-809-11	METAL CHIP	100	5%	1/10W
R409	1-216-833-11	METAL CHIP	10K	5%	1/10W
R411	1-216-821-11	METAL CHIP	1K	5%	1/10W
R412	1-216-821-11	METAL CHIP	1K	5%	1/10W
R413	1-216-864-11	SHORT CHIP	0		

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remark
R417	1-216-833-11	METAL CHIP	10K	5%	1/10W
R418	1-247-807-31	CARBON	100	5%	1/4W
R419	1-247-807-31	CARBON	100	5%	1/4W
R420	1-216-841-11	METAL CHIP	47K	5%	1/10W
R422	1-216-809-11	METAL CHIP	100	5%	1/10W
R423	1-216-809-11	METAL CHIP	100	5%	1/10W
R424	1-216-809-11	METAL CHIP	100	5%	1/10W
R425	1-216-809-11	METAL CHIP	100	5%	1/10W
R426	1-216-809-11	METAL CHIP	100	5%	1/10W
R427	1-216-809-11	METAL CHIP	100	5%	1/10W
R428	1-216-809-11	METAL CHIP	100	5%	1/10W
R429	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R430	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R432	1-216-809-11	METAL CHIP	100	5%	1/10W
R433	1-216-809-11	METAL CHIP	100	5%	1/10W
R434	1-216-809-11	METAL CHIP	100	5%	1/10W
R435	1-216-809-11	METAL CHIP	100	5%	1/10W
R436	1-216-809-11	METAL CHIP	100	5%	1/10W
R437	1-216-809-11	METAL CHIP	100	5%	1/10W
R438	1-216-809-11	METAL CHIP	100	5%	1/10W
R439	1-216-809-11	METAL CHIP	100	5%	1/10W
R440	1-216-809-11	METAL CHIP	100	5%	1/10W
R441	1-216-809-11	METAL CHIP	100	5%	1/10W
R442	1-216-809-11	METAL CHIP	100	5%	1/10W
R443	1-216-809-11	METAL CHIP	100	5%	1/10W
R444	1-216-809-11	METAL CHIP	100	5%	1/10W
R445	1-216-809-11	METAL CHIP	100	5%	1/10W
R446	1-216-809-11	METAL CHIP	100	5%	1/10W
R447	1-216-809-11	METAL CHIP	100	5%	1/10W
R448	1-216-809-11	METAL CHIP	100	5%	1/10W
R449	1-216-809-11	METAL CHIP	100	5%	1/10W
R450	1-216-809-11	METAL CHIP	100	5%	1/10W
R451	1-216-809-11	METAL CHIP	100	5%	1/10W
R452	1-216-809-11	METAL CHIP	100	5%	1/10W
R453	1-216-809-11	METAL CHIP	100	5%	1/10W
R455	1-216-809-11	METAL CHIP	100	5%	1/10W
R457	1-216-809-11	METAL CHIP	100	5%	1/10W
R458	1-216-809-11	METAL CHIP	100	5%	1/10W
R459	1-216-809-11	METAL CHIP	100	5%	1/10W
R460	1-216-809-11	METAL CHIP	100	5%	1/10W
R461	1-216-809-11	METAL CHIP	100	5%	1/10W
R463	1-216-809-11	METAL CHIP	100	5%	1/10W
R465	1-216-809-11	METAL CHIP	100	5%	1/10W
R468	1-216-809-11	METAL CHIP	100	5%	1/10W
R469	1-216-809-11	METAL CHIP	100	5%	1/10W
R472	1-216-809-11	METAL CHIP	100	5%	1/10W
R474	1-216-857-11	METAL CHIP	1M	5%	1/10W
R475	1-216-809-11	METAL CHIP	100	5%	1/10W
R482	1-216-809-11	METAL CHIP	100	5%	1/10W
R484	1-216-809-11	METAL CHIP	100	5%	1/10W
R489	1-216-864-11	SHORT CHIP	0		
R490	1-216-864-11	SHORT CHIP	0		
R491	1-216-864-11	SHORT CHIP	0		
R494	1-247-807-31	CARBON	100	5%	1/4W
R495	1-247-807-31	CARBON	100	5%	1/4W
R496	1-249-429-11	CARBON	10K	5%	1/4W
		< VARIABLE RESISTOR >			
RV101	1-241-768-11	RES, ADJ, CARBON		220K	
RV201	1-241-768-11	RES, ADJ, CARBON		220K	

Ref. No.	Part No.	Description				Remark
		< RELAY >				
RY301	1-515-920-11	RELAY (24V)				
		< SWITCH >				
S301	1-771-264-11	SWITCH, PUSH (DETECTION) (1 KEY)				
		< COIL >				
T101	1-419-080-21	COIL				
T201	1-419-080-21	COIL				
T301	1-423-980-11	TRANSFORMER, BIAS OSCILLATION				
		< TERMINAL >				
TM301	1-536-708-81	TERMINAL BOARD, PUSH (4P) (SPEAKER IMPEDANCE USE 6-16 Ω)				
		< VIBRATOR >				
X301	1-760-252-12	VIBRATOR, CRYSTAL 32.768KHz				
X302	1-781-107-21	VIBRATOR, CERAMIC 16MHz				
**********						
		MOTOR LOD BOARD				
		**********				
**********						
	A-1060-768-A	PANEL (1) BOARD, COMPLETE (AUS) (including PANEL (2), HEADPHONE and POWER board)				
	A-1061-300-A	PANEL (1) BOARD, COMPLETE (CND) (including PANEL (2), HEADPHONE and POWER board)				
	A-1061-399-A	PANEL (1) BOARD, COMPLETE (AEP, UK) (including PANEL (2), HEADPHONE and POWER board)				
	A-1061-756-A	PANEL (1) BOARD, COMPLETE (E3) (including PANEL (2), HEADPHONE and POWER board)				
	A-1061-774-A	PANEL (1) BOARD, COMPLETE (TW) (including PANEL (2), HEADPHONE and POWER board)				
	A-1061-790-A	PANEL (1) BOARD, COMPLETE (KR) (including PANEL (2), HEADPHONE and POWER board)				
	A-1062-114-A	PANEL (1) BOARD, COMPLETE (MX) (including PANEL (2), HEADPHONE and POWER board)				
		**********				
	4-249-151-01	HOLDER, FL TUBE				
		< CAPACITOR >				
C804	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C805	1-126-157-11	ELECT	10uF	20%	6.3V	
C806	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C807	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V	
C820	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	
C821	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	
C822	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	
C823	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	
C824	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	
C825	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	
C826	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	
C827	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	
C828	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	
C829	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	
C830	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	
C831	1-162-960-11	CERAMIC CHIP	220PF	10%	50V	
C832	1-126-157-11	ELECT	10uF	20%	6.3V	
C833	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V	

PANEL (1) PANEL (2)

Ref. No.	Part No.	Description			Remark
C834	1-162-971-11	CERAMIC CHIP	0.001uF	10%	50V
C835	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C836	1-162-971-11	CERAMIC CHIP	0.001uF	10%	50V
C837	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C838	1-162-960-11	CERAMIC CHIP	220PF	10%	50V
C839	1-162-974-11	CERAMIC CHIP	0.01uF		50V
C840	1-104-658-91	ELECT	100uF	20%	10V
C841	1-126-965-91	ELECT	22uF	20%	50V
C846	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C847	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C848	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
		< CONNECTOR >			
CN801	1-784-739-11	CONNECTOR, FFC 17P			
CN802	1-815-550-11	PIN, CONNECTOR (PWB) 2P			
		< DIODE >			
D801	8-719-063-91	DIODE SLR325DC-P-T32 (CD ►II)			
D802	8-719-063-91	DIODE SLR325DC-P-T32 (TUNER/BAND)			
D803	8-719-063-91	DIODE SLR325DC-P-T32 (TAPE ►)			
D804	8-719-063-93	DIODE SLR325VC-N-T32 (I/⏻)			
D805	8-719-982-26	DIODE MTZJ-T-77-33B			
D806	8-719-109-85	DIODE MTZJ-T-77-5.1B			
D807	8-719-063-91	DIODE SLR325DC-P-T32 (DSGX)			
D810	6-500-522-21	DIODE 10EDB40-TB3			
		< FLUORESCENT INDICATOR >			
FL701	1-518-965-11	INDICATOR TUBE, FLUORESCENT			
		< IC >			
IC801	8-759-643-83	IC PT6315			
IC802	8-759-826-33	IC NJL73H400A (IR)			
		< TRANSISTOR >			
Q801	8-729-037-03	TRANSISTOR	KTA1266GR-AT		
Q802	8-729-038-67	TRANSISTOR	KRC102S		
Q803	8-729-038-67	TRANSISTOR	KRC102S		
Q804	8-729-038-67	TRANSISTOR	KRC102S		
Q805	8-729-037-03	TRANSISTOR	KTA1266GR-AT		
Q806	8-729-037-03	TRANSISTOR	KTA1266GR-AT		
Q807	8-729-037-03	TRANSISTOR	KTA1266GR-AT		
Q808	8-729-037-03	TRANSISTOR	KTA1266GR-AT		
Q809	8-729-038-67	TRANSISTOR	KRC102S		
		< RESISTOR >			
R801	1-216-813-11	METAL CHIP	220	5%	1/10W
R802	1-216-815-11	METAL CHIP	330	5%	1/10W
R803	1-216-817-11	METAL CHIP	470	5%	1/10W
R804	1-216-819-11	METAL CHIP	680	5%	1/10W
R805	1-216-821-11	METAL CHIP	1K	5%	1/10W
R806	1-216-823-11	METAL CHIP	1.5K	5%	1/10W
R807	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R808	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R809	1-216-833-11	METAL CHIP	10K	5%	1/10W
R811	1-216-813-11	METAL CHIP	220	5%	1/10W
R812	1-216-815-11	METAL CHIP	330	5%	1/10W
R813	1-216-817-11	METAL CHIP	470	5%	1/10W
R814	1-216-819-11	METAL CHIP	680	5%	1/10W
R815	1-216-821-11	METAL CHIP	1K	5%	1/10W
R816	1-216-823-11	METAL CHIP	1.5K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R817	1-216-825-11	METAL CHIP	2.2K	5%	1/10W
R818	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R819	1-216-833-11	METAL CHIP	10K	5%	1/10W
R830	1-216-809-11	METAL CHIP	100	5%	1/10W
R831	1-216-809-11	METAL CHIP	100	5%	1/10W
R832	1-216-809-11	METAL CHIP	100	5%	1/10W
R833	1-216-809-11	METAL CHIP	100	5%	1/10W
R835	1-216-809-11	METAL CHIP	100	5%	1/10W
R841	1-216-809-11	METAL CHIP	100	5%	1/10W
R842	1-216-817-11	METAL CHIP	470	5%	1/10W
R845	1-216-864-11	SHORT CHIP	0		
R846	1-216-845-11	METAL CHIP	100K	5%	1/10W
R847	1-216-845-11	METAL CHIP	100K	5%	1/10W
R848	1-216-844-11	METAL CHIP	82K	5%	1/10W
R849	1-216-809-11	METAL CHIP	100	5%	1/10W
R850	1-216-809-11	METAL CHIP	100	5%	1/10W
R851	1-216-809-11	METAL CHIP	100	5%	1/10W
R852	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R853	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R854	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R855	1-216-829-11	METAL CHIP	4.7K	5%	1/10W
R856	1-249-393-11	CARBON	10	5%	1/4W
R857	1-216-845-11	METAL CHIP	100K	5%	1/10W
R858	1-216-833-11	METAL CHIP	10K	5%	1/10W
R859	1-216-809-11	METAL CHIP	100	5%	1/10W
R860	1-216-809-11	METAL CHIP	100	5%	1/10W
R861	1-216-864-11	SHORT CHIP	0		
R862	1-216-864-11	SHORT CHIP	0		
		< SWITCH >			
S701	1-762-875-21	SWITCH, KEYBOARD (I/⏻)			
S702	1-762-875-21	SWITCH, KEYBOARD (DISC 1)			
S703	1-762-875-21	SWITCH, KEYBOARD (DISC 2)			
S704	1-762-875-21	SWITCH, KEYBOARD (DISC 3)			
S705	1-762-875-21	SWITCH, KEYBOARD (DISC 4)			
S706	1-762-875-21	SWITCH, KEYBOARD (DISC 5)			
S707	1-762-875-21	SWITCH, KEYBOARD (DISC (+1))			
S708	1-762-875-21	SWITCH, KEYBOARD (DISC SKIP)			
S709	1-762-875-21	SWITCH, KEYBOARD (DSGX)			
S710	1-762-875-21	SWITCH, KEYBOARD (⏏)			
S711	1-762-875-21	SWITCH, KEYBOARD (FUNCTION)			
S712	1-762-875-21	SWITCH, KEYBOARD (+ ►► ▷▷I)			
S713	1-762-875-21	SWITCH, KEYBOARD (I◁◁ ◄◄ -)			
S714	1-762-875-21	SWITCH, KEYBOARD (■)			
S715	1-762-875-21	SWITCH, KEYBOARD (+)			
S716	1-762-875-21	SWITCH, KEYBOARD (-)			
S717	1-762-875-21	SWITCH, KEYBOARD (EX-CHANGE)			
S718	1-762-875-21	SWITCH, KEYBOARD (TAPE ►)			
S719	1-762-875-21	SWITCH, KEYBOARD (CD ►II)			
S720	1-762-875-21	SWITCH, KEYBOARD (TUNER/BAND)			
S803	1-473-392-11	ENCODER, ROTARY (VOLUME)			

****

PANEL (2) BOARD (included in PANEL (1) board)
****

< RESISTOR >

R821	1-216-813-11	METAL CHIP	220	5%	1/10W
R822	1-216-815-11	METAL CHIP	330	5%	1/10W

PANEL (2) | POWER | SW (A) | SW (B) | SW (C) | SW (D)

Ref. No.	Part No.	Description			Remark
R823	1-216-817-11	METAL CHIP	470	5%	1/10W
R824	1-216-819-11	METAL CHIP	680	5%	1/10W
R825	1-216-821-11	METAL CHIP	1K	5%	1/10W
		< SWITCH >			
S721	1-762-875-21	SWITCH, KEYBOARD (▮▮ TAPE)			
S722	1-762-875-21	SWITCH, KEYBOARD (● REC)			
S723	1-762-875-21	SWITCH, KEYBOARD (CD SYNC)			
S724	1-762-875-21	SWITCH, KEYBOARD (REPEAT/FM MODE)			
S725	1-762-875-21	SWITCH, KEYBOARD (PLAY MODE/TUNING MODE)			
**********					
		POWER BOARD, COMPLETE (included in PANEL (1) board)			
		**********			
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S			
		< CAPACITOR >			
C901	1-126-925-91	ELECT	470uF	20%	10V
C902	1-126-944-11	ELECT	3300uF	20%	25V
C903	1-126-925-91	ELECT	470uF	20%	10V
C904	1-126-925-91	ELECT	470uF	20%	10V
C905	1-126-944-11	ELECT	3300uF	20%	25V
C907	1-130-495-00	MYLAR	0.1uF	5%	50V
C909	1-130-495-00	MYLAR	0.1uF	5%	50V
C912	1-126-969-11	ELECT	220uF	20%	50V
C913	1-130-495-00	MYLAR	0.1uF	5%	50V
C914	1-130-495-00	MYLAR	0.1uF	5%	50V
C915	1-126-964-11	ELECT	10uF	20%	50V
⚠C916	1-113-924-11	CERAMIC	0.0047uF	20%	250V (EXCEPT CND, AEP, UK)
		< CONNECTOR >			
* CN901	1-564-515-11	PLUG, CONNECTOR 12P			
CN903	1-564-321-00	PIN, CONNECTOR (3.96mm PITCH) 2P			
* CN904	1-564-321-21	PIN, CONNECTOR (3.96mm PITCH) 2P (CND)			
CN904	1-774-108-11	PIN, CONNECTOR (PC BOARD) (EXCEPT CND)			
		< DIODE >			
D901	8-719-500-60	DIODE D5SBA20			
D902	8-719-063-79	DIODE 1N4002B			
D903	8-719-063-79	DIODE 1N4002B			
D904	8-719-063-79	DIODE 1N4002B			
D905	8-719-063-79	DIODE 1N4002B			
D906	8-719-063-79	DIODE 1N4002B			
D907	8-719-063-79	DIODE 1N4002B			
D908	8-719-063-79	DIODE 1N4002B			
D909	8-719-063-79	DIODE 1N4002B			
D910	6-500-522-01	DIODE 10EDB40-TA1B2			
D911	8-719-991-33	DIODE 1SS133T-77			
D912	8-719-991-33	DIODE 1SS133T-77			
D913	8-719-991-33	DIODE 1SS133T-77			
D914	8-719-063-79	DIODE 1N4002B			

Ref. No.	Part No.	Description			Remark
		< FUSE HOLDER >			
FH903	1-533-233-31	FUSE HOLDER			
FH912	1-533-233-31	FUSE HOLDER			
FH921	1-533-233-31	FUSE HOLDER			
FH922	1-533-233-31	FUSE HOLDER			
		< IC >			
IC901	8-759-231-57	IC TA7810S			
IC902	8-759-071-48	IC TA7807S			
IC903	6-701-760-01	IC uPC3504AHF			
		< RESISTOR >			
R901	1-249-417-11	CARBON	1K	5%	1/4W
R902	1-249-417-11	CARBON	1K	5%	1/4W
⚠R903	1-219-121-11	FUSIBLE	0.22	5%	1/4W
⚠R904	1-219-121-11	FUSIBLE	0.22	5%	1/4W
⚠R905	1-202-973-61	FUSIBLE	3.3	5%	1/4W
⚠R906	1-219-237-51	CARBON	3.3M	5%	1/2W (CND)
R909	1-249-421-11	CARBON	2.2K	5%	1/4W
		< RELAY >			
⚠RY901	1-755-324-11	RELAY			
**********					
		SW (A) BOARD			
		**********			
		< SWITCH >			
S811	1-786-289-21	SWITCH, DETECTION			
S831	1-786-289-21	SWITCH, DETECTION			
**********					
		SW (B) BOARD			
		**********			
		< SWITCH >			
S821	1-786-084-11	SWITCH, DETECTION			
**********					
		SW (C) BOARD			
		**********			
		< SWITCH >			
S841	1-786-382-11	SWITCH, PUSH (1 KEY)			
**********					
		SW (D) BOARD			
		**********			
		< SWITCH >			
S851	1-786-382-11	SWITCH, PUSH (1 KEY)			
**********					

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

THERMISTER

Ref. No.	Part No.	Description	Remark
		THERMISTER BOARD	
		**********	
		< THERMISTOR (POSITIVE) >	
THP822	1-807-796-11	THERMISTOR	
**********			
		MISCELLANEOUS	
		**********	
9	1-796-352-51	DECK, MECHANICAL (CMAL5Z225A)	
101	1-693-625-11	TUNER (FM/AM) (CND)	
101	1-693-626-11	TUNER (FM/AM) (AEP)	
101	1-693-626-11	TUNER (FM/AM) (UK)	
101	1-693-628-11	TUNER (FM/AM) (E3, MX, TW, AUS)	
101	1-693-629-11	TUNER (FM/AM) (KR)	
102	1-787-103-11	FAN, DC	
⚠103	1-769-079-41	CORD, POWER (KR)	
⚠103	1-769-744-52	CORD, POWER (AEP, UK)	
⚠103	1-775-790-12	CORD, POWER (AUS)	
⚠103	1-783-531-22	CORD, POWER (CND)	
⚠103	1-827-226-11	CORD, POWER (E3, MX)	
⚠103	1-827-597-31	CORD, POWER (TW)	
⚠105	1-468-738-11	REGULATOR, SWITCHING	
⚠1206	8-820-244-01	OPTICAL PICK-UP (KSM-215DCP)	
1208	1-827-992-11	WIRE (FLAT TYPE) (16 CORE)	
⚠F901	1-533-452-12	FUSE, GLASS TUBE (DIA. 5) (T4AL/125V)	(CND)
⚠F901	1-533-471-12	FUSE, GLASS TUBE (DIA. 5) (T4AL/250V)	(EXCEPT CND, TW)
⚠F901	1-533-453-12	FUSE, GLASS TUBE (DIA. 5) (T5AL/125V) (TW)	
⚠F902	1-533-452-12	FUSE, GLASS TUBE (DIA. 5) (T4AL/125V)	(CND)
⚠F902	1-533-471-12	FUSE, GLASS TUBE (DIA. 5) (T4AL/250V)	(EXCEPT CND, TW)
⚠F902	1-533-453-12	FUSE, GLASS TUBE (DIA. 5) (T5AL/125V) (TW)	
M701	X-2021-530-1	MOTOR (PULLEY) ASSY (LOD)	
M881	A-1060-630-A	MOTOR ASSY (ELV)	
M871	A-1060-630-A	MOTOR ASSY (LOD)	
S101	1-771-853-11	SWITCH, DETECTION (LIMIT)	
S881	1-478-706-11	ENCODER, ROTARY	
⚠T901	1-443-266-11	TRANSFORMER, POWER (CND)	
⚠T901	1-443-331-11	TRANSFORMER, POWER (AEP)	
⚠T901	1-443-331-11	TRANSFORMER, POWER (UK)	
⚠T901	1-443-332-11	TRANSFORMER, POWER	(E3, MX, TW, KR, AUS)

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

MEMO

REVISION HISTORY

Clicking the version allows you to jump to the revised page.
Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2004.06	New
1.1	2004.11	Change of supply form of PANEL (1), PANEL (2), HEADPHONE and POWER board (SPM-04124)
1.2	2005.01	Addition of Ref. No. 957 and 958 on CDM82A (SPM-05008)
1.3	2005.02	Change of Part No. for Ref. No. 5 (DOOR ASSY, CASSETTE) (SPM-05015)